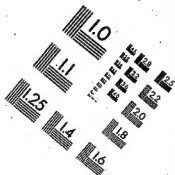
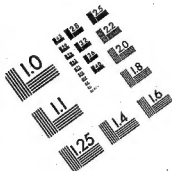




Association for  
Information and Image  
Management

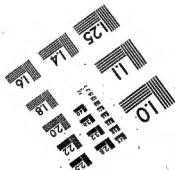
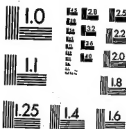
MS303-1980



Centimeter



Inches



# Thomas A Edison Papers

## A SELECTIVE MICROFILM EDITION

### PART II (1879-1886)

Thomas E. Jeffrey  
Microfilm Editor and Associate Director

Paul B. Israel  
Assistant Editor

Mary Ann Hellrigel  
David W. Hutchings

Douglas G. Tarr  
Robert A. Rosenberg

Editorial Associates

Leonard DeGraaf  
Joseph P. Sullivan  
Alan Stein  
Karen Kozak

John Deasey  
Barbara B. Tomblin  
Jacquelyn Miller  
Maria Antonakakis

Student Assistants

Keith A. Nier  
Assistant Editor

Reese V. Jenkins  
Director and Editor

#### Sponsors

Rutgers, The State University of New Jersey  
National Park Service, Edison National Historic Site  
New Jersey Historical Commission  
Smithsonian Institution

University Publications of America  
Frederick, Maryland  
1987

Edison signature used with permission of McGraw-Edison Company.

**Thomas A. Edison Papers  
at  
Rutgers, The State University  
endorsed by  
National Historical Publications and Records Commission  
18 June 1981**

Copyright © 1987 by Rutgers, The State University

All rights reserved. No part of this publication including any portion of the guide and index or of the microfilm may be reproduced, stored in a retrieval system, or transmitted in any form by any means—graphic, electronic, mechanical, or chemical, including photocopying, recording or taping, or information storage and retrieval systems—without written permission of Rutgers, The State University, New Brunswick, New Jersey.

The original documents in this edition are from the archive at the Edison National Historic Site at West Orange, New Jersey.

**THOMAS A. EDISON PAPERS**

**Reese V. Jenkins**  
Director and Editor

**Thomas E. Jeffrey**  
Associate Director and Microfilm Editor

**Assistant Editors**

**Paul B. Israel**  
**Robert A. Rosenberg**  
**Keith A. Nier**  
**Andrew Butrica**

**Assistant to the Director**  
**Helen Endick**

**Leonard DeGraaf**  
**Alan Stein**  
**Jacquelyn Miller**

**Research Associates**

**Douglas G. Tarr**  
**Mary Ann Hellrigel**  
**David W. Hutchings**

**Secretary**

**Grace Kurkowski**

**Student Assistants**

**Joseph P. Sullivan**  
**Karen Kozak**  
**Granville Miller**



## BOARD OF SPONSORS

Rutgers, The State University of  
New Jersey  
Edward J. Bloustein  
T. Alexander Pond  
Tilden G. Edelstein  
John Gillis  
New Jersey Historical Commission  
Bernard Bush  
Howard L. Green

National Park Service, Edison  
National Historic Site  
Roy W. Weaver  
Edward J. Pershey  
Smithsonian Institution  
Bernard Finn  
Arthur P. Motella

## EDITORIAL ADVISORY BOARD

James Brittain, Georgia Institute of Technology  
Alfred D. Chandler, Jr., Harvard University  
Neil Harris, University of Chicago  
Thomas Parke Hughes, University of Pennsylvania  
Arthur Link, Princeton University  
Nathan Reingold, Smithsonian Institution  
Robert E. Schofield, Iowa State University

## CORPORATE ASSOCIATES

William C. Hittinger (chairman), RCA Corporation  
Edward J. Bloustein, Rutgers, The State University of N.J.  
Cees Bruynes, North American Phillips Corporation  
Paul J. Christiansen, Charles Edison Fund  
Philip F. Dietz, Westinghouse Electric Corporation  
Roland W. Schmitt, General Electric Corporation  
Harold W. Sonn, Public Service Electric and Gas Company  
Morris Tanenbaum, AT&T

## FINANCIAL CONTRIBUTORS

### PRIVATE FOUNDATIONS

Alfred P. Sloan Foundation  
Charles Edison Fund  
The Hyde and Watson Foundation  
Geraldine R. Dodge Foundation

### PUBLIC FOUNDATIONS

National Science Foundation  
National Endowment for the Humanities

### PRIVATE CORPORATIONS AND INDIVIDUALS

Alabama Power Company  
Amerasia Hess Corporation  
AT&T  
Atlantic Electric  
Association of Edison Illuminating  
Companies  
Battelle Memorial Institute Foundation  
The Boston Edison Foundation  
Cabot Corporation Foundation  
Carolina Power and Light Company  
Consolidated Edison Company of  
New York, Inc.  
Consumers Power Company  
Corning Glass Works Foundation  
Duke Power Company  
Exxon Corporation  
Florida Power & Light Company  
General Electric Foundation  
Gould Inc. Foundation  
Gulf States Utilities Company  
Idaho Power Company  
International Brotherhood of Electrical  
Workers  
Iowa Power and Light Company

Mr. and Mrs. Stanley H. Katz  
Matsushita Electric Industrial Co., Ltd.  
McGraw-Edison Company  
Middle South Services, Inc.  
Minnesota Power  
New Jersey Bell Telephone Company  
New York State Electric & Gas  
Corporation  
North American Philips Corporation  
Philadelphia Electric Company  
Philips International B.V.  
Public Service Electric and Gas  
Company  
RCA Corporation  
Robert Bosch GmbH  
San Diego Gas & Electric  
Savannah Electric and Power Company  
Schering Plough Foundation  
Texas Utilities Company  
Thomson-Brandt  
Transamerica Delaval Inc.  
Westinghouse Educational Foundation  
Wisconsin Public Service  
Corporation

**START**

65

## **A Note on the Sources**

**The pages which have been  
filmed are the best copies  
available. Every technical  
effort possible has been  
made to ensure legibility.**

## **PUBLICATION AND MICROFILM COPYING RESTRICTIONS**

**Reel duplication of the whole or of any part of this film is prohibited. In lieu of transcripts, however, enlarged photocopies of selected items contained on these reels may be made in order to facilitate research.**

**THOMAS A. EDISON PAPERS**  
**A SELECTIVE MICROFILM EDITION**  
**PART II**  
**(1879-1886)**

**REEL 65**

**DOCUMENT FILE SERIES (DOC-25)**  
**D-83-016 [continued] through D-83-019**  
**("Edison, T.A. - Outgoing Correspondence"**  
**through "Edison, T.A. - Visitors")**

**D-83-016 Edison, T.A. - Outgoing Correspondence**

**CONTINUED FROM PRECEDING REEL**



1883-09-01

September 1st. 3

Major Flood Pape, General Manager,

Edison's Indian & Colonial Electric Co.

London, E. C. England.

Dear Sir:-

I have to give you below prices for machines, which we  
are now manufacturing:-

100 Light Machine.....\$ 400

400 Light Machine.....1,500

We are getting out designs for a 35 light machine, which  
will cost about \$175.; a 50 light machine which will be sold at  
about \$275.; We are also designing a 200 and 300 light machine,  
but cannot state what the price will be, until we have got a little  
further along in our work. Of course the only prices which you  
can look upon as absolute are those for the 100 and 400 light  
machines. In the course of a week or so, I can doubtless give  
you prices of machines of other denominations. All our prices  
are quoted F. O. B. in New York, but should any extra packing be  
required for long sea voyages, we shall be obliged to charge you  
for it. In shipping to England and the Continent, we are in the  
habit of using only our ordinary packing, but I presume if we have

1883-09-01

2

to ship to Australia for you, especially if we have to ship by Peabody's cutters, we shall have to use extra packing.

I also beg to hand you herewith price list of the Electric Tube Company for tubing on three wire system. These prices are subject to variations in the price of iron piping and of copper

I will send you a price list for lamps by Saturday's mail. I have been unable to get this out, owing to the absence of Mr. Upton, the Manager of the Lamp Factory.

I understood from you when you were here, that you had obtained from Bergmann & Co. their prices.

Very truly yours,

Enclosure.

1883-09-03

Sept, 3rd,

3

Charles Batchelor, Esq.,

Paris, France,

My Dear Batchelor:-

I find that I did not answer your letter of the 24th, June, asking me to explain how it was that there was a cross on the mains, in the down town district which the safety catches did not take care of, and which was only got rid of by putting on engine after engine until a piece of tube was burnt right off.

You will remember that the safety catches were only put on one pole of the system. In the first case they are rectified in the inside wire work by using a double safety catch, but the underground system was still left with only one side, consequently, when the grounds appeared the unprotected side of the circuit a short circuit was inevitable. Do you understand?

I am very poor on electrical descriptions, and more especially when it refers to a subject that I do not really conversant with.

I enclose you herewith copies of two sketches drawn by Edison, the original of which I have sent to Lieb, Milan. This will show you exactly what we use at the central station as an ampere recorder.. It is attached to the omnibus main in the sta-

Yours

1883-09-03

2

tion. Bradley carefully recorded the movements of the needle and compared these with the steam cards taken at the same time and then arrived at the exact number of lamps indicated as being on by the movements of the needle. He then prepared a scale, and attached it to the recorder, so that when a deflection of the needle takes place it will point out exactly the number of lamps burning on the system at that moment. The thing works very well indeed, and it is very interesting to watch its movements. If it happens to be a showery day, and a cloud suddenly comes up, the number of lights put in within a few moments is very large, as is shown by the deflection of the needle.

Very truly yours,

Enclosure.

1883-09-03

Sept. 3rd.

3

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We have again gone into the matter of a central station  
lot at Hallowfonte.

Lot 40 x 130, price \$430, on Lamb street, is the one best  
suited for our purpose.

Very truly yours,

1883-9-03

September Ord.

3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I have not yet received anything from you stating  
whether you can and how soon you can ship six <sup>1</sup> 5 1/2 x 10 engines.  
All that we have is to the effect that you can ship three weeks  
from the receipt of order. I am waiting to cable to London on  
this point, and would urge you to let me have the answer immedi-  
ately by wire.

Very truly yours,

1573-09-03

Sept. 3rd, 1868.

Charles W. Westervelt, Esq.

120 Third Avenue, City.

Dear Sir:-

Referring to your favor of the 30th. ulto., I think you are in error in stating that I charged you with being dishonest.

I had information which led me to believe that something of very peculiar character had taken place with relation to the pay-rolls at Cooper Street, and my informant connected your name with it.

I am glad to hear, however, that you are perfectly innocent, and that if anything wrong occurred in relation to the above matter, you had no connection whatever with it.

Very truly yours,

1883-09-03

Sept. 3rd. 1883

A. Stuart, Esq. Mecty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

Referring to your letter of the 20th. ult., I should like to have pointed out where we make 100 per cent on the items in the liquid estimate. I think there must be some error as to this matter, as our figures were all put at the lowest possible point to enable us to get our "square".

Very truly yours,



1883-09-03

Sept. 3rd. 8

E. W. Wilbur, Esq.

Worcester, Mass.

Dear Sir:-

Your various letters to hand.

Will you please ascertain at what time the library at  
Ashburn Hall, at Worcester, lights up?

In future we shall be glad, whenever possible, if you  
will give us the time of the lighting of all public <sup>buildings</sup> ~~buildings~~,  
Halls, libraries &c..

I am unable to tell you exactly where you will go to after  
after you have canvassed <sup>Southbridge</sup> ~~Southbridge~~, but will let you know in the  
course of a day or so.

Very truly yours,

1883-09-03

September 9 1883

J. W. Gorrell, Esq.

140 Nassau Street, City.

Dear Sir:-

Referring to your favor of the 31st, I have heard from Mr. Conkling since you saw him, and my letter to you was in consequence of a communication from him stating that he would act for me.

Very truly yours,

1883-09-03

Sept. 3rd. 3

Spencer Jordan, Esq.

P. O. Box, Mill,

Boston, Mass.

Dear Sir:-

I send you by this Mail, under separate cover, map of Worcester with red circle marked thereon.

Please have the price of lots obtained, that are for sale within the area marked, and send same to us, together with the map sent herewith.

We want the lots marked distinctly on the map, and shall be glad to have full information as to the sizes of each lot, the price of same, the nature of the soil and whether there are any buildings on the lots, and if so, the character of same and size.

We are waiting for the location of central stations at North Adams, and Pittsfield. Please let us have these as soon as possible.

Very truly yours,

1883-09-03

Sept. 3rd,

3

Major Flood Page, Gen'l. Manager,

Edison's Indian & Colonial Electric Co.

London, E. C. England.

Dear Sir:-

You asked for a statement, when you were here, of the number of Armstrong & Sims engines used by us.

I enclose you a list which gives you the engines shipped up to July, 1883. We are ordering these engines right along, so that this list, up to this date, is incomplete.

Very truly yours,

1875-09-03

September 3rd.

3

George S. Judd, Esq.

San Francisco, Cal.

Dear Sir:-

I find that your letter of the 30th July has been mislaid, hence the delay in replying to same.

I am indebted to you for the Post Office Order for \$5. I presumed that you had forgotten about the matter, and know that I would hear from you as soon as it occurred to you.

I enclose you herewith a memorandum prepared by Mr. Edison as to canvassing. If it does not give you all the information you desire in relation to this matter, please notify me as to what further you would like us to explain, and I will answer you promptly.

Very truly yours,

1883-09-03

Sept. 3rd.

3

P. D. Myer, Esq.

St. James Hotel,

Springfield, Ohio.

Dear Sir:-

In future please give, if possible, the time of lighting  
of all public halls, libraries &c., as this information will be  
very useful to us.

Very truly yours,

1883-09-03

September 3rd.

3

Edison Lamp Co.

Harrison, N. J.

Dear Sirs:-

Referring to your Mr. Walker's letter of the 30th. ult.,

I think it would be advisable to stick to U<sup>s</sup> fibres and try  
and work up the life.

Very truly yours,

1873-09-03

Sept. 3rd.

Charles T. Hughes, Esq.

J. S. Hotel,

Newburgh, N. Y.

Dear Sir:-

I send you by this mail map of Newburgh with two circles thereon, and shall be glad if you will let us have a memorandum of the lots for sale within that area, giving the size and price of each lot and the nature of the soil, and whether there are any buildings on the lots, and if so the character and size of same.

It would be preferable to have the central station inside of the circle AA and if not inside of the circle BA.

In sending the above information, please return the map with the lots marked distinctly thereon.

Very truly yours,

Sunbury

1883-09-03

Sept. 3rd.

W. S. Andrews, Esq.

National Hotel,

Shamokin, Penna.

Dear Sir:-

If the Sunbury engineer should get sick, could his brother run the station?

Do you think that the engineer and his brother could answer the questions with relation to the engineer and motor work, which Mr. Edison sent you and which you answered?

Can you give me any information of the total number of lights connected at Sunbury?

I have telegraphed this morning to Mr. Marr asking him to send Hollis the wireman, who is new at Sunbury, to report to you at Shamokin. This man is supposed to teach the permanent local man at Shamokin, but pending Mr. Edison's arrival there, I do not want any arrangements made with a local man, as Mr. Edison wishes to choose one himself. If Mr. Mauty desires some houses wired, you had better ask him to engage such a man as Hollis would wish to assist him, say a local carpenter. This engagement should not be of a permanent character, but only by the day. I want you to see that Hollis does his work well and economically, and also desire that you should look up some jobbing carpenters in Shamokin, to



1583-09-03

2

that when Mr. Edison goes there, he will have little difficulty in picking out the man he wants.

On Monday I shall send Mr. Leonard to take the place of Mr. Conant, as I want Conant to go to Brockton Tuesday night.

Have written Herppmann about the switches.

Very truly yours,

1873-09-03

Sept. 3rd.

3

J. R. Campbell, Esq.

Bellefonte, Penna.

Dear Sir:-

Referring to your telegram of yesterday's date, I beg to send you herewith another map of Bellefonte.

The central station we have chosen is on Lamb Street, lot 40 x 120.

You will have to get a permit to run our feeders from the back of the lot to the red lines, and the course our feeders will take is indicated by the white lines on the map.

Please see if you can get this permit, and return the map to us at the earliest possible moment.

We will advise you by telegraph where to go after you get through at Bellefonte.

You will notice attached to the maps sent you some remarks by Mr. Spangue, which will explain to you what permits are required, in addition to those stated to you when you were here.

Very truly yours,

Enclosure.

1883-09-03

September 3rd, 3

Major Flood Page, Gen'l. Manager,  
Edison's Indian & Colonial Electric Co.  
London, E. C. England.

Dear Sir:-

Enclosed herewith please find statement of Mr. Edison as to canvassing towns for central station purposes, also statement as to the progress of our business in America. If you desire any further information on these points, please inform me and I will write you fully as to the matter.

Very truly yours,

Enclosure, d.

1883-09-03

Sept. 3rd, 1883.

C. J. Willard, Esq.

Care Mr. Phenson, Willard & Co.

Portsmouth, N. J.

Dear Sir:-

Could you take some of the cores which we have at  
George Street and hammer them down so that they would be thicker  
and shorter? If so, on what terms could you do this?

We wish to alter over a number of our E and L machines,  
and in order to do so economically we shall have to get the cores  
hammered down to shorter lengths of great diameter.

Very truly yours,

1883-09-03

September 3rd.

3

John W. Lieb, Esq.

Via Manzoni, 13 A,  
Milano, Italy.

Dear Sir:-

I find your letter of the 1st. July has been overlooked.

If the Italian Company will give you from \$2000. to \$2500. a year, I donnot think you would be doing better if you took from them a three years contract.

I think it would be a great mistake to use a regulator with relation to the station. If you will communicate with Mr. Kitcheler, I have no doubt he will give you all the information you may desire on this subject.

You should use an ampere meter to show the number of lights on the system at any given time.

I enclose you herewith rough sketch of an instrument that we use for this purpose, which works very well indeed.

Very truly yours,

Enclosure.,f.

1883-09-03

Sept. 3rd. 1883.

H. C. Blackmer, Esq., Supt.

N. Y. Mica Mining Co.

Custer, D. T.

Dear Sir:-

Your very abusive letter of the 17th. ulto., addressed to Mr. Wells, has been turned over to me to reply to, in consequence of the gentleman who conducted the correspondence with you having left my service.

I have called for copies of the whole correspondence with you in relation to this matter, and will endeavor to settle it immediately the same is placed in my hands, as it is very distasteful to me to be compelled to have dealings with any one who doubts the veracity of statements emanating either from my own office or the office of my shops, the Edison Machine Works.

I do not know what has been done in the matter recently, beyond your letter of the 17th. August, so am unable to say anything further than this at this writing.

Very truly yours,

*Dynamo*

1883-09-03

Sept. Ord.

3

Messrs. Bergmann & Co.

202 Avenue B, City.

Dear Sirs:-

Mr. Andrews writes as follows with relation to the new house changing switches:-

"On farther consideration, I think the connecting posts on double main switch should be made on same pattern and size as connecting post on head-board of 'H' dynamo, as there will be three wires running to each of them, and it will be best to clamp all three."

Will you see that this is done.

Very truly yours,

Patents

1873-09-03

Sept. 3rd.

3

Charles Hatchelor, Esq.

Paris, France.

Dear Sir:-

I wrote you some time back in reference to Italian patents, and you sent a form which is not exactly what is required by us.

What we want to get is a copy of an official paper or order issued by the Italian Government in response to an application for prolongation of a patent.

Very truly yours,



1773-09-04

Sept. 4th.

George H. Hopkins, Esq.

C-O "Scientific American"

261 Broadway, City.

Dear Sir:-

I have your letter of September 3rd, and in reply would  
beg to state that you can use my name as reference.

Trusting that your venture will be successful, I remain,

Yours very truly,

*Tak.*  
*D*

Danbury

1883-09-04

Sept. 4th.

8

H. W. Walber, Esq.

Webster, Mass.

Dear Sir:-

I wish to call your attention to some omissions which you made in the canvass of Danbury, in order that you may rectify them in future:-

TURKISH HOUSE. An old resident of the place informs me that this is a large and first class hotel. You fail to mention it in your canvass.

RAILROAD DEPOT. You only show two lights in the telegraph office. But about the waiting rooms, Superintendent's office, platform No. 7

OPERA HOUSE. You fail to mention the number of light or the approximate time of burning.

DWELLINGS. When there are only two or three dwellings in a large block or say 1000 feet, you should always state about how many feet these houses are situated from a certain corner, as it is more than likely that without this information the lights will be improperly located. It is not necessary for you to give us the exact distance, for all practical purposes you can arrive near enough to it by pacing.

In crossing railroad tracks, bridges or any other noticeable land-marks, please mention them in your canvass. I notice

1883-09-04

2

that you generally mention railroad tracks, but you omit to say anything about bridges.

When there are no houses on an alley it is unnecessary to take up three or four pages to say, "east side nothing, north side nothing, west side nothing." If you would simply make a note at the top of the page it would answer.

Very truly yours,

A. B.

1893-09-04

Sept. 4th. 3

James Swinburne, Esq.

9 Kensington Terrace,

Gateshead-on-Tyne, England.

Dear sir :-

I beg to acknowledge receipt of your favor of the 21st. ulto., and note what you say about the double winding of dynamos and thread carbons.

In reference to the former, I used those double <sup>around</sup> ~~wound~~ dynamos <sup>1</sup> 2 years ago, and my patent is about a year old now.

We have made thread carbons but prefer using bamboo.

I regret to say that I am unable to avail myself of the opportunity of securing your very valuable services, as I have no position which I can offer you.

Very truly yours,

J. A. E.  
J

1883.09.04

Sept. 4th.

3

Wm. J. Sprague, Esq.

Hotel Palmer,

Worcester, Mass.

Dear Sir:-

I have sent you by express this morning two maps of  
Worcester, one being your determination and the other a determi-  
nation made by Mr. Claudius.

I wish you would compare these and let me have your  
final determination, returning both maps.

I would like all information from you to be given in  
full detail, so that nothing may arise that will prevent our going  
right ahead and getting out estimates after maps have been received  
from you.

Very truly yours,

A. J.

1883.09.04

Sept. 4th.

3

W. J. Sprague, Esq.

Hotel Palmer,

Procton, Mass.

Dear Sir:-

I sent this morning by express maps of Racine and  
Williamsport for your determination.

It will be necessary to decide in each case upon the lot  
best suited to our purposes.

Please let me have this back again at the earliest pos-  
sible moment, as we are being pressed for estimates.

Very truly yours,



1883-09-04

Sept. 4th.

3

P. D. Dyer, Esq.

St. James Hotel,

Springfield, Ohio.

Dear Sir:-

I have your letter of the 1st. inst.

It seems peculiar that the towns mentioned by you should

be dead towns.

Shall be glad to hear of the progress of your canvass  
in Springfield.

Very truly yours,

S.S.

Bergmann

Sept. 4th.

3

M. E. Glavin, Esq. Pres.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I am in receipt of your favor of yesterday, and in reply would say that Mr Insull telephoned to Bergmann's as promised, but they must have omitted to have informed you of the fact.

We shall commence the shipment of tubes in about three days, and shall start in/ing them as soon as a sufficient number have been received at Lawrence to start the men on.

Very truly yours,

Jal.  
J



1883-09-04

Sept. 4th.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am just in receipt of your telegram of to-day in  
reference to estimates for Williamsport and Bellefonte.

We are pushing them to the utmost and hope to send them  
early next week.

Very truly yours,

*W. B. Shaw*

1883-09-04

Sept. 4th.

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I have your letter of the 1st. inst, and in reply would beg to state that I will retain the temporary fixtures.

I regret exceedingly the delay that has occurred in finishing the Lawrence Station.

We will commence shipping tubes this week, and work will be proceeded with as quickly as possible.

Very truly yours,

*T. A. L.*  
O.

1883-09-04

Sept. 4th. 1883.

Spencer Gordon, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

Referring to your favor of the 1st. inst, I am obliged to you for the assistance you offer.

We have, however, obtained Mr. Soidan( formerly Mr. Clarke's assistant) as superintendent of the works.

Mr. Inall has got the better of the accounts in hand, and has had an expert working on them for a week. I am glad, however, to say that there is nothing wrong with them.

Very truly yours,

*Tal.*  
*J.*

1883-09.04

Sept. 4th. 1883.

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Yours of the 20th. came duly to hand.

You will have received a letter, subsequent to mine of the 4th. ulto., which will fully explain matters at the Edison Machine Works.

What I referred to when you were over here was that Mr. Edison had given Dean a 7 per cent interest in certain work, by which Dean made about \$9,000. or \$10,000. The contract work of the shop, which I referred to, is the piece work, on which the men have made a very great deal of money. So far we have been unable to find out whether Dean had any arrangement with his men by which he got a share of this money. However, we had sufficient other matters to show Edison that it was necessary to give Dean the "G.B."

I may say that I have obtained a release from Dean, by which the amount still due him on the arrangement Edison made with him is wiped out. We save \$7,000. by this release, which will go in a slight measure towards what the Edison Machine Works had lost by Dean's dishonesty.

You will see that there is no necessity to give Edison the advice to take strenuous measures, mentioned in the latter end of your letter. He had already taken the advice before your

1883-09-04

Sept. 4th. 1883.

2

letter came to hand. And the advantage of the change  
is already apparent.

Very truly yours,

S. I.

1883-09.04

Sept. 4th.

3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

I have your letter of August 15th, with enclosure from Mr. A. J. Smith, in relation to the inaccuracies in the blue print of Appleton.

Will you please ask the President to make the corrections he speaks of on the map?

I would suggest that you should not buy a lot until you first communicate with us and give us an opportunity to calculate whether it would be a good position for our central station, as you might purchase a lot which would raise the cost of the conductors to a very high figure, owing to its location.

Will you please hurry forward the information asked for about Noonah lots on August 15th., also send us a map of Appleton as soon as possible.

Very truly yours,

*J. A. K.*  
*J.*

158309-04

Sept. 4th.

3

Sheer, Gordon, Esq.

P. O. Box 5411,

Boston, Mass.

Dear Sir:-

I have your letter of the 1st, September.

As you desire it, we will leave all matters in connection with the wiring at Fall River to yourself. You should wire for a 200 ohm lamp, and in places where there are 100 lights and over, you should put in two separate systems, so that we can take current off from both the A and B side of the three wire system.

Very truly yours,

J. A. L.  
J

1883-09-04

Sept. 4th.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

I have your favor of the 20th, and in reply to same would say that the sooner you can leave Paris the better.

There is plenty of work here to do and very few of us to do it.

I am going to write to the Paris Company offering them lamps at lower prices.

Very truly yours,

Jal.  
3



1883-09.04

Sept. 4th. 3

Messrs. Hermann & Co.

203 Avenue B, City.

Dear Sirs:-

I was in receipt of a letter from Mr. Katchelor, under date of August 7th, in which he states that he has received a bill for six arc lights complete with globes and carbons, value \$113.25.

He wishes to know if these are Dr. Rosen's arc lights, and says if they are, it was understood between Mr. Navarro and himself that these lamps would be sent as experimental ones, and he was not expected to pay anything for them.

Please let me know what I shall say in answer to Mr. Katchelor.

Very truly yours,



1873-09.04

Sept. 4th.

3

P. M. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Will you please hurry forward the information in reference to lots at Lock Haven and Renovo, sent you about August 10th

Would it not be possible for us to get information of this nature in a shorter time? It seems to me that a month is a good while to keep a man, in order to give the information we ask for.

Very truly yours,

*W. A. C.*  
*J*

1883-09-04

Sept. 1883.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter by August 31st. in reference to  
estimate for Williamsport.

The electrical determination for this place is now being  
made and the estimate will be sent you in a very short time.

Very truly yours,

*J. H. L.*  
3

1883-09-04

Sept. 4th.

3

A. Stuart, Esq. Secty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

On August 10th. I sent you blue prints of Hamilton and  
Corydopolis, and on the 18th. a blue print of Washington C.H., ask-  
ing information in relation to lots. On the 3rd. of August I  
again wrote you asking you to hurry this information, as we were  
waiting for it and could do nothing until it arrived.

Up to this writing it has not come to hand, and I am  
under the impression that some delay has occurred with which you  
are unacquainted. Will you kindly look the matter up, and have  
these maps, with all the information on them, forwarded to me at  
the earliest possible moment, as we can do nothing towards getting  
out an estimate until we receive this information.

Very truly yours,

J. A. H.  
J

1883-09-05

Sept. 5th, 1883

Messrs. Hale & Walcott,  
80 Court Street,  
Boston, Mass.

Dear Sirs:-

Your letter of August 28th, addressed to Sir Grosvenor  
P. Jewroy, has been referred to me, and in reply I beg to state  
that I have heard nothing from Anders. If you will forward the  
commission to me I will see that Milton W. Adams' deposition is  
taken.

Very truly yours,

*T. A. C.*

1883-09-05

Sept. 5th. 1883.

Ernesto Saldan, Esq. Supt.

Edison Machine Works,

104 George Street, City.

Dear Sir:-

Will you please have prepared and sent to me a statement showing the number of armatures you have on hand, what machines they are for and whether class A or B? I also want *the* list of unfilled orders, of which you should keep a copy.

Very truly yours,

*Yale*  
*J*

1883-09-05

Sept. 5th.

R

A. Stuart, Esq. Secty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

I beg to acknowledge receipt of your favor of September 3rd.

In reference to an estimate for a 1000 light plant, it is impossible for us to make an estimate on a plant of that size, as we have no type of dynamo or engine that will answer.

We can send you an estimate for an 800 light plant or a 1600 light plant. If you will let us know which one of these will be best suited to your purpose we will have it forwarded to you at once.

Trusting that your efforts in regard to Lima will be successful, I am,

Yours very truly,

J. A. C.

1883-09.05

Sept. 5th.

3

E. T. Greenfield, Esq.

252 Avenue B, City.

Dear Sir:-

Will you please send me as soon as possible estimates  
on Blackwells Island, Wards Island and Randall Island.

Very truly yours,

Jag.



1883-09-05

Sept. 5th.

3

Frank S. Marr, Esq. Treas.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

Will you be kind enough to let me have a statement showing the number of consumers of electric light in Sunbury, also the amount of their monthly bills?

I would also like a statement of the monthly expenses of the Sunbury central station.

I would beg to remind you that we are still without a check for the balance due upon our contract, (\$5,400.)

Very truly yours,

L. A. G.

1893-09-05

September 5th. 3

F. J. Sprague, Esq.

Hotel Belmont,  
Brockton, Mass.

Dear Sir:-

I have your letter of September 4th, and in reply would say that I have ordered the wire, blow pipe and rubber tubing to be forwarded to you at once.

In preference to solder, why can you not get this at some local store and charge it up in your expenses?

I have ordered Mr. Friesa to ship you the insulating *tape* that you require.

I also have your telegram of this morning, and have forwarded by express a blank chart of Fall River.

As regards inside wiring, I telegraphed you this morning that we were attending to this ourselves.

Very truly yours,

*T. A. J.*

1883-09-06

Sept. 6th.

3

J. B. Campbell, Esq.

Renovo, Penna.

Dear Sir:-

I was presented this morning with a draft for \$50., drawn by you at Bellefonte, Pa.

I was under the impression that I explained to you one evening in the office here that it was only under exceptional circumstances that I allowed any of my canvassers or other travelling employees to draw upon me for money, owing to the confusion which these drafts cause in the office, even when drawn at one day's sight. I only extend this privilege when there is no other way of furnishing them with money.

If you were to send me your expense account with a little regularity, it would enable me to have a better idea of how your finances stand. I have only received one expense account from you since you started out. These statements should be made to me on the 7th, 14th, 21st, and 28th day of each month, and I expect that in future I will receive them from you in this order, and that you will make no more drafts, except when directly authorized to do so.

Very truly yours,



1883-09-06

Sgt. Gth.

2

P. D. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am in receipt of your favor of the 5th. inst. in reference to the number of lights at Lock Haven and Renovo.

The actual number of lights covered by our district in Lock Haven is 1,810 and in Renovo 730 lights. I would therefore put a 1,000 light plant in the former place and a 500 light plant in the latter.

Very truly yours,



1883-09-06

Sept. 6th. 1883.

The Edison Company for Isolated Lighting,

65 Fifth Avenue, N.Y.

Dear Sirs:-

Referring to your requisition 1,883, under date of September 5th, asking us to repair one "H" armature from the Boston "Herald", I beg to inform you that this armature has its shaft journal on the pulley side badly cut, and it will necessitate turning off, and consequently the bearing boxes now in the machines will not be available. It will therefore be necessary for us to make a new box for the journal, and I shall be glad to know if I have your authority for going ahead with this work.

Yours truly,



1883-09-06

Sat. 6th. 1883.

Gustave Soldan, Esq Supt.

Edison Machine Works,

104 Coerek Street, City.

Dear Sir:-

I am in receipt this morning of a letter from the General Manager of the Isolated Company stating that the armature sent to Baltimore proved to be too short for that machine, and will have to be returned. The pillar blocks, containing the phosphor bronze bearings, will also be returned.

I believe you sent four pounds of Habbitt metal and two sets of Habbittbearings, for which you had no requisition.

Was there any other material sent not covered by an order?

Yours truly,

E. A. G.

1883-09-06

Sept. 6th.

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 1th. inst, and in reply would say that I will do all that I possibly can to send you the estimate for Bellefonte on Saturday morning.

Williamsport is now being determined, and it cannot be returned from Brockton, where I had to send it, and an estimate made out and forwarded to you before either Monday or Tuesday, but you can rest assured that I will do all in my power to further the work.

Very truly yours,

Tagg  
J

1893-09-06

Sept. 6th. 3

Messrs. Babcock & Wilcox,

30 Courtlandt Street, City.

Dear Sirs:-

Enclosed please find agreement in referenced to our  
wiring which Mr. Edison spoke to you about yesterday.

Very truly yours,

*T. A. L.*

Enclosure.



1883-09-07

Sept. 7th, 1883.

J. Hutchinson, Esq.

Sir,

Dear Sir:-

I beg to give you the following information which you asked for in reference to the 25 light dynamo:-

The height from the floor is 33 <sup>1</sup>/<sub>2</sub> inches, size of bed-plate 31 x 17 <sup>1</sup>/<sub>2</sub> inches, the pulley is 8 inches in diameter, with 4 inch face, and the armature makes 1000 revolutions per minute.

Very truly yours,



1783-09-07

Sept. 7th.

3

Henry A. Clarke, Esq.

3 Merch Building,

Baltimore, Md.

Dear Sir:-

I beg to enclose you herewith three estimates for Eric  
for 1600, 2400 and 3200 lights, and amounting to \$17,371.36,  
\$40,377.70 and \$54,554.00 respectively.

In making these estimates I have spared no <sup>time</sup> efforts to  
reduce our figures to the lowest possible standard. I wish,  
however, to specially stipulate that in the case of each estimate  
our bid for the street installation is based upon the assumption  
that your Company will obtain for us the necessary permits to run  
our mains and feeders according to the red lines shown in Exhibits  
"A and B," sent you under separate cover.

Referring to our estimate for 1600 and 2400 lights, you  
will notice that the street installation gives a capacity of 3001  
lights, and in both these cases the station is so arranged as to  
allow you to at any time increase your capacity to 3200 lights.

You will notice in EXHIBIT A that our mains stop on the  
north side of Twelfth Street, between Cassaffra and Ponch Streets.

In our estimate for 3200 lights the street installation  
admits of a capacity for 3011 lights, in accordance with the red  
lines shown on the map marked Exhibit B.

1893-09-07

2

I would again call your attention to the matter of permits, in accordance with the red lines shown on our exhibits. Should you fail to obtain any of these, and by this means cause any additional expense, it would be necessary for us to charge your Company with it.

Trusting that these will meet your requirements, I am,

Very truly yours,



Enclosure.

1883-09-07

Sept. 7th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Enclosed please find map of Hellenste, Pa. which requires a new determination according to the red lines.

I also enclosed all your <sup>papers</sup> ~~papers~~ in reference to that place.

Very truly yours,



Enclosure.

1853-07-07

Sept. 7th.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N. Y.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 5th. inst, and in reply would say that plot No. 2, west of Montgomery Street and north of Third Street, is the most desirable location for our central station. You state in your letter, however, that these lots are on the side of a <sup>high</sup> hill. I should like to know if ~~this hill is~~ <sup>this hill is</sup> composed of rock which would require blasting or whether excavation could be made with pick and shovel. You might find out from some local contractor what he would charge per cubic <sup>yard</sup> ~~foot~~ to reduce a lot with a 40 foot front to the level of the street.

Please let me have this information at the earliest possible moment, so that I can go ahead with the estimate.

Very truly yours,

J. J.

1873-09-07

Sept. 7th.

3

S. H. Eaton, Esq. Pres.

Edison Electric Light Co.

City.

Dear Sir:-

Referring to my interview with you as to the Utica contract and your asking my opinion as to the acceptance of the proposition of the Utica Directors to make a contract with me to put up the plant there for \$37,000., the balance of my estimate (about \$3,000) to be paid by the Light Company, I wish to place on record my objection to this course being pursued in view of the fact that you propose bringing the matter before the Executive Committee for final settlement.

The proposed arrangement would be a good one for the "Construction Department", but a very objectionable one, in my opinion, for the Light Company to accept.

I consider it far better to allow the Utica Company to fall through, rather than have the Light Company accept such a proposal which would most certainly prejudice their future business, whereas the failure to close the Utica contract this Fall would have, under the worst circumstances, but a temporary effect on our business.

Yours truly,

1893-09-07

Sept. 7th.

3

Thomas A. Edison, Esq.

65 Fifth Avenue, City.

Dear Sir:-

I shall be glad if you can make it convenient to attend a meeting of the Board of Directors of the Edison Telephone Company of Europe, to be held at the office of Messrs. R. L. Cutting & Co., 10 William Street, at 4 P.M. on Tuesday the 11th. September.

The purpose of the meeting is to consider the arrangements with Col. George E. Gouraud and the Edison-Gower-Bell Telephone Company of Europe.

Col. Gouraud is now in the City and will attend the meeting and explain the state of the Company's business.

Very truly yours,

*T. A. E.*

President,

Edison Telephone Co., of Europe.

1883-09-08

Sept. 8th.

A. A. Cowles, Esq., Secy.

Ansonia Brass & Copper Co.

10 Cliff Street, City.

Dear Sir:-

Would it be possible for you to furnish us with some of the cable for inside house wiring, as per the last sample you sent us? We want some very badly to use in connection with our central station work, and would like to have it if possible before you shut down.

We require about 750 lbs. of No. 12, about 300 lbs. of No. 10, about 300 lbs. of No. 14 and about 200 lbs. of No. 13.  
very  
We shall doubtless need a good deal more of this shortly.

Will you please let us know by bearer what you can do in relation to the matters

Very truly yours,

Jag.



1883-09-08

Sept. 8th. 8

Spencer Gordon, Esq.

P. O. Box, 3311,

Boston, Mass.

Dear Sir:-

We beg to acknowledge the receipt of your favor of the 8th. inst. in reference to Dean.

Inasmuch as you have sent men to inspection at the request of Mr. Garrison, we presume there is no need to trouble further about the matter.

Very truly yours,

F. A. G.

1893-09-08

Sept. 8th.

A. Stuart, Esq. Socy.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 5th. September.

We have no 1000 light plants (unit), and we cannot very well give you an estimate for a 1000 light plant at present.

We think it would be a fatal error on your part not to make provision for future increase, as if you pursued that course the expense of extending your plant will be considerably heavier, than if you put a plant in now with the intention of increasing it later on.

Very truly yours,

*L. A. C.*

1893-09-08

Sept. 8th.

3.

A. Stuart, Esq. Mecty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 8th. September, with relation to our prices which you term very high.

You are entirely in error with reference to our prices on boilers and engines. We have tried every <sup>available</sup> boiler, and find that the Babcock & Wilcox boiler is the only one suitable to our business. It would be absolutely impossible for you to purchase it for the price you mention. Ordinary return flue boiler are entirely useless to us.

With relation to engines, we had considerable experience with different classes of engines, when we first started our business, and as the result adopted the Armington & Sims engine, which, considering the results obtained from it, is by far the cheapest in the market.

Very truly yours,

J. A. C.  
J

1883-29-08

Sept. 25th,

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to acknowledge the receipt of your favor of September 25th., and are obliged for the suggestions contained therein.

With relation to anything in connection with the station, whether it is inside wiring, automatic regulators or anything else, we wish you would be kind enough to make suggestions to this office only, inasmuch as you were sent to Brockton to start the station, and were given no authority to deal with other work. <sup>we</sup> would much prefer that you should discuss matters <sup>and inside</sup> outside of your province with us and not with Mr. Garrison or any other Brockton gentleman. We are always only too glad to receive suggestions from you, which your valuable experience may lead you to make, and should you think it desirable for any information to be communicated to Mr. Garrison, if you will inform us of it, we will have it sent from here. We shall esteem it a favor if you will pay particular attention to the above instructions.

As regards inside wiring, as Mr. Garrison has taken upon himself the responsibility of ordering men from Boston to do this

1893-09-08

work, there is no necessity for us to deal further with the subject.

In relation to the matter of men to assist you in wiring the station, we do not see the advisability of going either to New York or Boston to find them. We think one man would be able to give you all the assistance you will require. You could "break in" a local carpenter in a short time, and thus save a great deal of unnecessary expense. When Mr. Andrews was starting the Sunbury central station, he only required one man to assist him, and we presume that you can work with equal economy.

CHARLES. We note your remarks about forwarding you clean charts, and will in the future see that your wishes are complied with.

We fail to understand your remarks in reference to automatic regulators, and shall be glad if you will explain them.

We do not quite grasp your ideas in reference to switches. We are certain that we have ordered all the switches necessary for Brockton, and (for your information) <sup>we clarify what</sup> we have ordered as follows:-

- 8 Feeder Switches, 10 new style house changing switches,
- 2 new style plug switches, 10 small plug switches, 3 dynamo changing switches, 6 small plug switches for lightning protector,

1883-09-08

Sept. 8th.

3

*for middle fence wire*

4 No. 000 plug switches, <sup>1</sup> 2 inch <sup>3</sup> and 1 double dynamo changing switch of new design. The bank of test lamps requires 2 large plug switches and 10 small plug switches of different design. These switches were ordered on Mr. Andrews experience at Sunbury.

It is our desire to have uniform electrical connections for all our stations, and if you are unacquainted with the fixtures which I have decided upon, and which experience has proved to us to be the best for our business, we shall be very glad to give you what information you want at any time you may ask for it.

Is the breakdown switch you refer to the one designed by Mr. Andrews? *(the double dynamo changing switch)*

We wired you last night requesting you to send two determinations of Fall River, and stating that we had ordered all the wire which you wanted. I am notified this morning, by the Western Union Telegraph Company, that you left Brockton last night for New York, and that the telegram is undelivered. I presume, however, that there is some mistake in the matter.

We wish you would very kindly bear in mind the remarks we have made in reference to suggestions. We are only too glad to receive ideas from any source whatever, as long as their flow is directed to this office, but we particularly wish to reserve to

1883-09-08

ourselves the privilege of distributing these ideas among people  
only indirectly connected with our business, as the improper use  
of them may cause us very serious inconvenience.

Very truly yours,

*T. A. C.*

1883-09.08

Sept. 8th. 3

W. S. Andrews, Esq.  
Shawokin, Penna.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 4th. inst, and note what you say in reference to the Sunbury engineer and motorman.

I am having printed copies made of the dynamo questions and answers and "instructions", and will send you copies as soon as I receive them from the hands of the printer.

Very truly yours,

J. A. G.



1883-09-08

Sept. 8th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I have your letter of August 7th, and have been obliged to delay answering it in order to obtain information from Mr. Bergmann in reference to arc lights.

That gentleman says that he received an order for these lamps from you orally, and that he only knows you in the matter, but if Mr. Navarro wishes to have the charge transferred to him, he (Bergmann) will do so. The lamps referred to are Dr. Rodos' patent.

Regarding dynamos, our "H" machine gives 400 amperes; we are winding with larger wire and will get from 450 to 575 amperes easy without any other change. We are running, with perfect success at Louisville, 14 "H" machines, with a constant load every evening of 400 amperes.

You can tell Bailey that, taking <sup>to account</sup> in costs, we will discount Hopkinson and go him ten per cent better on anything he can do.

Yours very truly,

T. G. E.

*Electricity - Motors*

1883-69-08

Sept. 8th.

3.

George S. Ladd, Esq.

222 Sansome Street,

San Francisco, Cal.

Dear Sir:-

I have your favor of August 30th, and in reply beg to state that nickel as a conductor is seven times worse than copper and four times more expensive. Mr. Burbage has no authority from us to make a statement that a nickel mine would be of great value to for electrical and telegraphic purposes and that it is superior to copper as a conductor, as such is not the case.

The instructions for canvassing towns in the interest of the electric light were sent you some time ago.

Very truly yours,

*J. L. G.*

1883-09-09

Sept. 9th.

3

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sirs:-

Referring to my contracts with Messrs. Biedermann,  
Zurich and Cherbules with reference to the introduction of my  
system of electric lighting into Switzerland, I hereby accept and  
ratify Article Seventh of the Statutes of your Company concerning  
the transfer consented to and accepted for the price of 135,000  
francs, and I also accept and ratify the rest of the Statutes  
of your Company.

Very truly yours,

1883 09-09

Sept. 8th.

3

Messrs. Bergmann & Co.

202 Avenue B, City.

Dear Sirs:-

Please send me by bearer ten (10) copies of your catalogue and give me your best rate of discount for our Swiss Company. They are at present buying their material from the London Company, and I have no doubt but what I can get their trade for you if you will put your discounts as high as possible.

Very truly yours,

*J. A. K.*

22. St. -

1883-09-10

Switzerland

Sept. 10th.

3

A. Achard, Esq. Prost.

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sir:-

Referring to my letter to you of this date giving prices, since I wrote that letter I have received from Messrs. Bergmann & Co. the following:-

"We are anxious to get the trade of the Swiss Company, and will agree to furnish goods in our catalogue to them at thirty (30) per cent discount, excepting sockets, cut-outs and switches, on these, as an extra inducement, we will make the discount thirty two and one half (32 1/2) per cent.

These prices are better than Messrs. Bergmann & Co. have ever quoted to anybody, and I trust that they will prove acceptable to you.

The above cancels that part of my former letter which refers to Messrs. Bergmann & Co's discount as being twenty five (25) per cent.

Messrs. Bergmann & Co. ship goods charging for boxing and cartage on same, but this is a very small amount.

1883-09-10

2

I would suggest that you prepare a telegraph code for use between your Company and myself.

Anything that you may require from here I shall be glad to attend to the shipment of, and in fact would suggest that all orders should be sent to me and payments made to me, in order to avoid confusion and to insure your getting exactly what you require.

Very truly yours,

J. A. E.

1883-09-10

Sept. 10th.

3

A. Achard, Esq. Messrs.

Societe d'Appareillage Electrique,  
Geneva, Switzerland.

Dear Sir:-

I have received your various letters as to the formation of your Company, and have recently received from my Attorney, Mr. Goddard, a full report on the matter, which enables me to reply to the various questions raised by you.

First, as to material. Within the last few months we have made a great many changes in connection with the construction of our dynamo machines with a view to increasing their capacity for a given investment, and in many cases is increasing the capacity and reducing an investment. We have so far turned out a 400 light machine, which we are prepared to sell to you for \$1,500., P.O.B., New York, and also a 100 light machine, for which we should charge you \$400., P.O.B., New York. At the present time we are about constructing a number of 25 light machines, 50 light machines, 200 light machines and 300 light machines. At this writing it is impossible for me to give you the exact prices of these machines, but immediately our work on them is

1883-09-10

2

advanced sufficiently, I will send you quotations for your guidance. With relation to the two machines first referred to, I have ordered for you detailed drawings of same, which will be sent forward at the earliest possible moment.

It has been quite impossible for me to write you earlier on this matter, owing to the fact that at the time you applied for information, the construction of our dynamos was in a state of transition from one style to another, and the data at our command was not sufficient to be of any material assistance to you.

With relation to sockets, electroliers and other sundries, I send you by this mail, under separate cover ten copies of Messrs. Bergmann & Co's catalogue, which will give you exactly the information you ask for. The prices quoted are subject to a discount to you of twenty five (25) per cent, which is the very best terms given by them to any of our companies.

I also send you, under separate cover, copies of Messrs. Armington & Sims engines, for which I beg to quote the following prices, N.Y., New York City:-

1	6 2 x 6 Engine.....	575
1	8 2 x 10 Engine.....	775



1883-89-10

3

1  
 9 2 x 12 Engine.....\$ 1,050.  
 10 x 13 Engine..... 1,000.

Each of the above engines have one driving pulley on.

13 x 13 engine with 1 driving pulley each side.\$1,450.  
 1  
 14 2 x 13 engine with driving pulley on  
 each side.....\$2,000.  
 1  
 14 2 x 13 engine without any driving  
 pulleys and arranged for connecting  
 directly with steam engine..... 1,900.

With relation to lamps, I beg to quote you prices as follows:-

Ten (10) Candle Lamps.....\$ .50 each  
 Eight (8) and Sixteen (16) Candle Lamps... .50 "  
 Thirty Two (32) Candle Lamps..... .75 "  
 Fifty (50) Candle Lamps..... 1.00 "  
 One Hundred (100) Candle Lamps..... 1.50 "

The above prices for lamps are F.O.B., New York.

The reason we charge sixty cents for ten candle lamps,  
 is that it is but recently that we have started to manufacture  
 them and the quantities in which we make them are comparatively  
 small and the difficulties of manufacturing are considerably  
 greater than in the case of the eight and sixteen candle lamps.

I also send you, under separate cover, six(6) complete  
 sets of our Bulletins, from Bulletin No. 8, those coming before

that number being out of print.

I further send you six (6) copies of the catalogue of our Isolated Company, and also six (6) copies of a small pamphlet on electric lighting.

I will endeavor to send you, in the course of a few days, a set of electro-types for your use.

With relation to your inquiry as to whether I can give you the right to sell installations in countries where I have no companies to exploit my patents, I beg to inform you that my contracts are of such a character that I am absolutely precluded from giving you the concession you ask for.

If you will please advise me of any further information that you may require of me, I will see that it is promptly sent you.

I enclose you herewith reduced photograph of our 400 light machine, which will give you some idea of the construction of same. The 100 light machines are got up in the same style, and immediately I have photographs of them in hand, I will send you copies.

Very truly yours,

*Yah*

Enclosure.

823-C9-10

Personal.

Sept. 10th.

3

Frank H. McCormack, Esq.

Williamsport, Penna.

Dear Sir:-

I enclose you herewith two letters of even date, one addressed to the Promoters of the Edison Electric Illuminating Company of Sunbury, and the other addressed to you as President of the Edison Electric Illuminating Company of Sunbury. The latter must not be presented to the Directors of the Sunbury Company, until the Promoters give their permission to the arrangement I propose for their consideration.

I see no prospects of the immediate settlement of my accounts, and I make the proposition contained in the two letters enclosed as the only solution of a difficulty at once embarrassing to the Sunbury Company and annoying to myself, inasmuch as I put in the plant under a contract which lead me to look for full payment immediately my work was finished. Understanding from my Secretary, Mr. Insull, that the Directors of the Sunbury Company were willing to accede to any fair proposition which would enable me to get my money or something to represent it, I think the enclosed is the best way of amicably settling the matter.

Very truly yours,

Gale

[ENCLOSURE]

1883-09-10

Sept. 10th.

3

To The Promoters of the Edison Electric Light Co. of Sunbury,  
Sunbury, Penna.

Dear Sirs:-

Referring to my letter to the President of the Sunbury Company of even date, I make the proposition contained in that letter on the condition that the stock to be received by you (as Promoters) from the Edison Electric Light Co. shall be allotted to me, or if allotted, transferred to me in proportion to the amount of stock allotted to me by the Company in settlement of my account against them. For example, if it takes three tenths (  $\frac{3}{10}$  ) (after increasing the stock) of the capital stock of the Company to enable them to settle my claim, the amount of the Promoters shares I am to receive in addition, shall be three tenths (  $\frac{3}{10}$  ) of the total amount of shares of the Sunbury Company received by you as Promoters from the Edison Electric Light Co. under your arrangement with them.

Very truly yours,

*G. A. B.*

[ENCLOSURE]

1883-09-10

Sept. 10th.

Frank H. McCormick, Esq. President.

Edison Electric Illuminating Co. of Sanbury,  
Williamsport, Penna.

Dear Sir:-

I am anxious that the indebtedness of your Company to me (about \$8300.) should be settled forthwith. I beg to propose that the balance of ~~outstanding~~ in your Treasury be allotted to me in part payment of the above amount, the price to be allowed for said stock being the par value of the shares. To pay for the balance remaining after that, your Company must increase their capital stock to such an amount as to pay me (in stock) for said balance.

Please have this matter brought before your Directors and acted on as early as possible.

Very truly yours,

L. L. L.

1873-09-10

Spot. 10th Dec. 3

Gustave Seldan, Esq. Supt.

Edison Machine Works,

104 Goerck Street, City.

Dear Sir:-

It is very important that I should have tracings of the 100 light machine and the 400 light machine, so as to enable me to take a number of blue prints or send to send to our various foreign companies. If you can oblige me by getting these out at the earliest possible moment, I shall esteem it a favor.

Very truly yours,

A handwritten signature, possibly 'S. J.', in dark ink.

1883-09-10

Sept. 10th. 3

W. A. Doury, Esq. Frost.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

Finding that the wire, that I wrote you about, would not be ready in time to enable you to take advantage of it in the first case, I sent a wireman to Shamokin to start the wiring there, so as to enable us to get sufficient lights on when to make a showing when the station at Shamokin is put in operation.

I was very much surprised and somewhat annoyed at finding that that wireman would have been sent back to New York by you without your communicating with me at all in the matter.

In order that we may get some lights started at Shamokin at the earliest possible date, I would strongly advise that you send to Northbury for a man who is doing the wiring there and have him wire up several prominent buildings to start the work.

It is only a matter of a very few weeks before we will be able to supply you with a very much cheaper material for wire work, but in the meantime I think that your business would suffer very much if the station was left in its present state until that material is ready.

Very truly yours,

J. A. T. J.

1893-09-11

Sept. 11th.

3

P. D. Oyer, Esq.

London, Ohio.

Dear Sir:-

I have your letter of September 5th, dated at Springfield, Ohio, and in reply beg to say that I do not at all approve of Mr. Stuart's ideas as to how a city should be canvassed. If you canvass a city of the size of Springfield for only 1000 lights, if they should ever want to increase their plant, it would necessitate another canvass, while our present style of doing business enables us to at any time to make a desired increase in the capacity of a plant with very little additional expense. It will therefore be better for you not to adopt Mr. Stuart's suggestions.

I should like very much to take a trip to the Cincinnati and Louisville Expositions to see our plants in operation. I hear excellent reports from all quarters, and from them judge that we are making a very fine show. Unfortunately, however, I am so busy that I cannot even run into the country for a few days to recuperate, notwithstanding the fact that I am very nearly "played out" with hard work. I hope, however, that the spell of cold weather, which we are at the present moment enjoying, will have a bracing effect upon my constitution and enable me to hang



1883-09-11

2

out" without taking any holidays.

Very truly yours,

SS

1883-09-11

Sept. 11th.

J. R. Campbell, Esq.

Williamsport, Penna.

Dear Sir:-

I received this morning your letter and map in reference to Renovo.

Have the Renovo Company, by their charter, the privilege of running wires according to the red lines shown on our maps. I find that you have not given me this information, and should like to know if we can run through private property, and if there are any obstructions in the way and the nature of them?

I wish you would always be careful in sending reports upon a town to include this information, as without it it is impossible for us to make a proper estimate of the cost of the street installation.

Very truly yours,



1883-09-11

Sept. 11th.

3

A. A. Cowles, Esq. Secty.

10 Cliff Street, City.

Dear Sir:-

I have your letter of the 10th.

The price named by you for the cable seems very high indeed. Cannot you possibly make it for us for less than 48 cts. per pound? We desire the cable put up in coils. We order by Birmingham gauge.

Very truly yours,

1883-09-11

Sept. 11th. 1883.

The Edison Co. for isolated lighting,  
City.

Dear Sirs:-

Referring to your favor of yesterday's date, it is very uncertain when we shall be able to take in hand the changing over of the "X" and "J" machines. Even if the "X" machine is changed into a 100 light machine it will of necessity be a more expensive machine than the present 100 light machine and by no means so good looking.

Yours truly,

1883-09-11

Sept. 11th.

3

J. P. Bailey, Esq.

33 Ave de-l' Opera,  
Paris, France.

My dear Bailey:-

I have your letter of August 10th, and note what you say in reference to an International Society in London.

I do not believe that your scheme would be feasible in that place, but I think that Paris might do.

In reference to the other points in your letter, Major Eaton is writing you, embracing them all.

Very truly yours,

*Gale*

1893-09-11

Sept. 11th.

3

W. H. Rich, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I have your letter of September 8th, and have ordered forward the glass for the oilers and the gibs, which were broken in transit.

I presume by this time you have received the 35 feet of 3 inch rubber tube which you asked for.

I think it would be as well for you to obtain office furniture in Brockton, keeping the cost of same under \$100.

I do not understand what the oil cans are which you ask if you shall return.

I also have your letter of September 1st, enclosing sketch showing the disposal of indicators and switches in the Brockton central station.

Very truly yours,



1883-09-11

Sept. 11th.

3

Messrs. Borgmann & Co.

202 Avenue B, City.

Dear Sirs:-

Then can you supply us with a <sup>1</sup> 4 horse power motor  
and a <sup>1</sup> 4 horse power motor with connections complete? We want  
to send them to Brockton.

Very truly yours,

1883-09-11

Sept. 11th.

3

N. S. Keith, Esq.

41 Liberty Street, City.

Dear Sir:-

Will you please let me have shipping directions for the  
plating machine built at the Machine Works.

Very truly yours,

J. A. B.

1883-09-11

Sept. 11th.

3

G. W. Wilber, Esq.

Corner 4th. & Rodman Sts.

Fall River, Mass.

Dear Sir:-

I enclose you herewith map of Fall River, and I have enclosed in a red line the district that I want you to canvass first. After you have canvassed this district you can go ahead with the rest of the city, but I want you to take in a larger area than is shown on this map. I believe the city extends considerably further South, North and East than is recorded on the enclosed, and if you consider it advisable to go further West, I want you to do so. I am particularly desirous of having this canvass made with all possible despatch, and therefore think it would be better for you not to make it in book form, but to get it out on sheets, which you can work up every night and send us the data in the morning, so that we can go right ahead with the map as this information comes to hand and have it completed by the time your canvass is all sent in. I trust that you will do everything in your power to rush this through, as it is imperative that we should have the estimate ready by the 21st. After the map is completed it has to be sent to Boston for the electrical determination to be made, and you will therefore see that no time is to be lost

1883-09-11

2

in forwarding your notes.

Please be careful in mentioning dwellings to give the class and if you come across any bridges state whether they are draw bridges or not.

I notice in your canvases of Natick that in some places you canvass a store for the first time say at 8.05 P.M. or later and mark it "closed". It would be well for you to find out if the store closes at 3 P.M. or if it remains open until 7 or 7.30.

Very truly yours,



1883-09-11

Sept. 11th.

Messrs. Bergmann & Co.

403 Avenue B, City.

Dear Sirs:-

I am in receipt of a letter from Mr. Andrews, under date of September 4th, and I beg to quote the following for your information:-

"I hope that Bergmann is pushing forward the three ampere meters and the pressure indicators, also the double main switch for spare dynamo and my standard volt meter. I shall soon be waiting for the ampere meters etc. I wrote a letter to Mr. Clarke concerning these instruments yesterday, and I trust that Mr. Bergmann will see that my directions concerning them are carried out or we shall have trouble."

Mr. Andrews at the moment is in the City, and will doubtless call upon you with reference to the above.

I have this day sent to Herr Oscar Von Miller, Munich, Bavaria, bill of lading for one box of electrical material shipped by you on the 5th. inst. by the "Red Star".

Very truly yours,

S. L.

1883-09-11

Sept. 11th. 3

S. R. Bailey, Esq.

Oxford, Conn.

Dear Sir:-

Your favor of the 7th. inst. came to hand yesterday.

With relation to what you have to say about my telephone, all the comment I can make on this is that you are entirely in error. I have never taken advantage of yours or anybody elses inventions or suggestions. I am altogether too busy to consider any matters outside of my own inventions, and would therefore suggest that you should patent your ideas and work them out yourself.

Very truly yours,

1883-09-12

Sept. 12th. 3

Frank H. McCormick, Esq. Pres.

Edison Electric Illuminating Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

I have your letter of the 5th. inst. in reference to  
providing insurance on the Sunbury central station.

The value of the machinery, together with the building, is  
about \$8,000., and one per cent would be a fair rate on a risk  
of this character.

Very truly yours,

*T. A. G.*

1883-09-12

Sept. 12th.

3

Philip Richardson, Esq.

Box 586,

Woburn, Mass.

Dear Sir:-

I have your favor of the 10th. inst, and in reply beg  
to state that we have changed one of our machines to a plating  
machine for Mr. Keith for metallurgical purposes. It gives 8 2  
volts pressure and 455 amperes of current. The price was \$1,300.

Trusting that this will give you all the information  
you require, I am,

Very truly yours,

*Z. A. C.*

1883-09-12

Sept. 12th.

8.

W. D. Rich, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I have your letter of the 10th. inst, and in reply would say that I do not understand your statement that there is no material at Lawrence to commence work on.

The bedplate and washers for the 14 1/2 x 18 engine, together with washers for bolts which were ordered for the 11 1/2 x 10 engine, went forward on the 11th. inst. The bolts and pipes for both engines went forward on the 24th. inst. Air chamber covering was forwarded on the 26th. and bolts for the dynamo on the same date. Test lamps on the 27th, and with one or two exceptions, the engine room and meter room sundries have all been despatched.

I have just been notified by Messrs. Babcock & Wilcox that the boiler was shipped <sup>yesterday</sup> ~~on~~ morning, and you can have the 14 1/2 x 18 engine anytime <sup>after</sup> this week by notifying Messrs. Armington & Sims to ship it. The steam piping should go forward to-morrow.

I have advised you right along of the shipment of this material, and I shall be glad to know if any of it has gone astray, as in that case we must have tracers sent out for it immediately.

1883-09-12

Sept. 12th.

8

The Electric Tube Company have already commenced to  
ship tubes.

I shall be glad to know if there is anything else that  
you have not received which will prevent your going ahead with the  
work.

As requested, I enclosed you herewith a plan of the Law-  
rence station, and also two bird prints of the underground con-  
ductors. You will recollect that these conductors stop at  
Jackson Street, those beyond that showing the extension which the  
Lawrence Company propose to make later on.

Very truly yours,



1883-09-12

Sept. 12th,

3

Edison Electric Light Co.

London, E. C. England.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

8 candle lamps....	\$ .40
16 candle lamps.....	.40
10 candle lamps....	.30
32 candle lamps....	.60
50 candle lamps....	1.00
100 candle lamps....	1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the Ports of London, Bristol, Liverpool, Glasgow or any other English Port to which shipping rates are not higher than those to the Port of London.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices,

1883-09.12

2

but find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also. Those quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*T. A. C.*

P.S. If you are prepared to order 5 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of London, Bristol, Liverpool, Glasgow or any other English Port to which shipping rates are not higher than those to the Port of London.



1883-09-12

Sept 12

3

Deutsche Edison Gesellschaft,  
50 Leipziger Strasse,  
Berlin, Germany.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

8 candle lamps.... 3.40

16 candle lamps.... 4.40

20 candle lamps.... 5.30

32 candle lamps.... 6.00

50 candle lamps.... 1.00

100 candle lamps.... 1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the ports of Hamburg, Antwerp or Genoa.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices

1883-09-12

2

but find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices of these lamps also. These quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*T. A. L.*

P.S. If you are prepared to order 8 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the ports of Hamburg, Antwerp or Genoa.

1883-09-12

September 12th.

3

A. Schard, Esq. Prost.

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sir:-

Referring to my letters of the 10th., I beg to supplement the prices quoted for lamps by the following:-

If you will order from us lamps in lots of 10,000, we will give you the following prices:-

8 candle lamps....\$ .40

16 candle lamps..... .40

16 candle lamps..... .50

32 candle lamps.... .60

50 candle lamps.... 1.00

100 candle lamps.... 1.50

If you give us an order for 25,000, we will give you the further advantage of delivering the lamps free on board in the Ports of Hamburg, Antwerp or Havre.

Very truly yours,

*J. Schard*

P.S. If you are prepared to order 4 candle lamps in lots of

1883-09-12

3

10,000 or upwards, we shall be willing to supply them to you at  
thirty five (35) cents each, and if ordered in lots of 25,000 and  
upwards, we will ship them to you free on board in the Ports of  
Hamburg, Antwerp or Havre.

1883-09-12

Sept. 12th.

3

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

In view of the improvement in the manufacture, and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

4 candle lamps,....\$ .40

10 candle lamps,..... .40

16 candle lamps,..... .50

32 candle lamps,..... .60

50 candle lamps,..... 1.00

100 candle lamps,.... 1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the Ports of Hamburg, Antwerp or Genoa.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices,

1883-09-13

2

But find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also.

These quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*Jab.*

P.S. If you are prepared to order 8 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of Hamburg, Antwerp or Genoa.

1883-09-12

Sept. 12th.

3

P. H. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge receipt of your favor of the 11th inst, and regret to state that it was necessary for us to obtain a new determination of Baltimore, and we were consequently unable to forward you the estimate on Saturday as promised in the previous letter.

I will send you estimates of Williamsport to-morrow morning for 1900 and 2400 lights.

In reference to Oil City, I presume you are aware that we have as yet made no canvass of that place. I suppose, however, you will notify us when you want this done.

Very truly yours,

*H. Talcott*

1893-09-12

Sept. 13th.

3

Major S. B. Eaton,

City.

Dear Sir:-

I am in receipt of a letter from Messrs. Harris & Robinson, under date of September 11th., asking us to make a canvass of Norwalk, South Norwalk and Waterbury, and shall be glad to know if we have your authority to go ahead and do the work?

Yours truly,

J. A. G.



1883-09-12

Sept. 12th. 3

A. A. Cowles, Esq. Recty.

19 Cliff Street, City.

Dear Sir:-

I beg to acknowledge receipt of your favor of the 11th. inst. in reference to triple covered wire, and will send you the sample that you ask for in a day or so.

Very truly yours,

A handwritten signature, likely of the sender, in dark ink. The signature is stylized and appears to be a first name followed by a last name, though the specific letters are difficult to decipher due to the cursive style.

1883-09-12

Sept. 12th.

3

W. H. Douty, Esq. Pres.

Shenokin, Penna.

Dear Sir:-

I wired you this afternoon that you should order through the Edison Electric Light Company, 250 lamps of ten candles each to start on.

In order to explain to you my reason for sending this telegram, I would say that the lamps have to be ordered through the Light Company, as the Edison Lamp Factory cannot recognize orders unless they are received through that Company.

Very truly yours,

J. A. B.

1883-09-13

Sept. 13th. 3

W. R. Upton, Esq.

Harrison, N. J.

Dear Sir:-

I beg to acknowledge receipt of your postal card of the 13th, inst, and in reply would say that Mr. Edison is going to Shamokin on Monday, the 17th. prox.

Very truly yours,

1883-09-13

Sept. 13th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Wrocton, Mass.

Dear Sir:-

In reference to your several communications received during the last few days, I regret to say that Mr. Insull, who has these matters in hand, is at the present moment ill and confined to his bed. He will, however, be in the office again to-morrow or next day, when he will send you the necessary answers.

I have your letter of to-day's date giving the size of the coils for the regulator designed by you and have referred a copy of it to Hermann & Co.

Very truly yours,

1883-09-14

Sept. 14th. 3

W. D. Rich, Esq.  
Hotel Belmont,  
Brockton, Mass.

Dear Sir:-

I have your letter of Sept. 13th., and in reply would say that the parts of the "H" dynamo which were lost in transit will be sent you immediately. The delay in sending these was caused by the Superintendent of the Machine Works not understanding what you meant by "gib". I showed him your sketch and he now understands what it is that you want.

In reference to oil cans, please return those you have on hand at Brockton to John Ott, care Bergmann & Co., 293 Avenue B, New York.

I note your remarks in reference to Lawrence, and I presume that you can start on Monday to erect the boiler.

I telegraphed Samuel L. Moore & Sons this morning to send me a duplicate shipping receipt for the washers and bolts. When I get this, I will send it to you and you can have the railway agent at Lawrence send out tracors for the missing material, providing it does not arrive in the meantime.

I will write Messrs. Armington & Sims in reference to the stop valves on their 1 1/2 x 13 engine, and have it made the pro-

1883-09-14

2

per size.

The Lawrence meters went forward yesterday, and I think the Brockton meters were shipped at the same time, in any event you will receive them in a day or two.

Freight bills came to hand "O.K."

Very truly yours,

*Lab. J*

1883-09-14

Sept. 14th.

3

J. R. Campbell, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter of the 14th. inst., and forwarded to you yesterday morning another chart of Williamsport.

In reference to the Williamsport Company securing themselves the necessary concessions to erect poles on private property, I would state that we much prefer to obtain these permits ourselves, but if the Williamsport Company desire that we shall allow them to obtain the permits, we will do so, but simply stipulate that our bid for the street installation will only hold good providing the concessions are obtained in accordance with the lines shown on our exhibits.

Enclosed find check ~~for~~ 50 for \$50. to cover your expenses.

Very truly yours,

*L. A. G. y*

Sept. 14th.

George W. Elias, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

I was informed by a gentleman, who boarded at the Palmer House, Chicago, that the lights installed in that building go out two or three times a week. I presume that you have been unaware of this fact, and I write this letter in order that you may have the matter corrected.

Very truly yours,

*Faby*



1883-09-14

Sept. 14th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brookton, Mass.

Dear Sir:-

We have the pleasure to acknowledge your favor of the 6th. inst, which would <sup>have</sup> been replied to earlier but for circumstances which have interfered to prevent this being done.

AUTOMATIC REGULATOR. We do not believe at all in the use of automatic regulators in central stations whilst the regulator is in such a condition. In our opinion the automatic regulator is a necessary evil in isolated plants where there is great variation number of lamps on at any one time and the variations in speed. Both these difficulties are comparatively overcome in our central stations, and I much prefer hand regulation. With relation to the hand regulator, I enclose you herewith a sketch which will show you the method in which Mr. Andrews connected up the regulator at Sharnokin, where the same blunder had been made in this connection as the one you now have. You probably can set it right by pursuing the same course as Mr. Andrews did.

With relation to men, if you find it cheaper and more economical to use wiremen, you can of course have them. What we want to do is to have the work done as well and as economical as

1883-09-14

3

possible

The connections, such as designed by Mr. Johnson, have been ordered for you and will be shipped immediately they are ready.

With relation to the switches, we enclose you herewith a rough sketch of the arrangement of the station at Shamokin.

All reference in letters written you have been partly based on the method pursued at Shamokin.

Will you please see if you have switches to answer for the work at Brockton, following generally on the same character of work as that done at Shamokin, and a knowledge of which the enclosed sketches will give you? If you have not we will order such switches as you may intimate as being requisite. It is our impression, however, that you have all the switches, and in fact several over, except possibly several plug switches for cutting the bank of resistance in and out.

The reference in our letter of the 5th. ~~Mr.~~ Sunbury was in error, Shamokin should have been mentioned, as the criticism on switches required by you was based on what had been found to suit the purpose at Shamokin.

Yours truly,

*Tabby*

Enclosure.

1883-09-14

Sept. 14th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

This will introduce to you Mr. Johnson, whom we are sending to Brockton to take charge of the wiring of houses under your direction. We desire that Mr. Johnson should wire enough houses to make a showing on at the start, and if he requires any assistance, that he should obtain it locally, subject to your approval.

When I get to Shrewsbury, I will choose a local man, who is to be taught our method of wiring. You will of course see that Mr. Johnson follows out generally the plans laid ~~out~~ at Sunbury, with relation to inside wire work.

Yours truly,

Yag  
y

1883 09.14

Sep. 14th.

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Please impress upon Mr. Jenk's the fact that we must not cut in any customers the total of whose lamps will not give us at least two hours and thirty minutes average for 300 days. If he is going to cut in any one who wnts the light, the station will simply be a commercial failure.

The maximum number of lights that a party ever burns at any one time, divided by the total lamp hours in 300 days should give not less than 730 hours per lamp. Of course a party may have 50 lamps connected, but never have more than 10 lighted; if that is the maximum, then those are the lamps to be counted.

Do you see the point?

Yours truly,

*E*

1873-27-15

Sept. 15th.

3

G. P. Lowrey, Esq.

2 Broad Street, City.

My Dear Mr. Lowrey:-

I enclose your herewith copies of letters to  
Sir John Lubbock and Theodore Waterhouse, in reference to the  
fusion of the Edison and Swan Companies in England.

Very truly yours,

Enclosure.

1893-09-15

Sept. 15th,

A. A. Cohen, Esq. Secty.

15 Cliff Street, City.

Dear Sir:-

In reply to your favor of September 15th., I beg to say that I will speak to Mr. Egoni in reference to the cost of tape.

Regarding cotton for outside wrapping, I agree with you that plain uniform color will look much better than the "bamboo" pattern, and shall be glad if you will choose something that will answer.

Very truly yours,

1883-09-17

Sept. 17th. 1883.

S. B. Fazio, Esq.

P. O. Box, 3311,

Boston, Mass.

Dear Sir:-

I have your favor of the 14th. inst. in reference to the brushes on the 400 light dynamo.

At the Louisville Exposition we have fourteen "H" dynamos, eight of which carry 400 lights each, and on which we are using the brushes you speak of. I am informed that these brushes work beautifully and the commutator polishes. We make all our tests with the brushes you have.

It would be impracticable to use a set of "J" brushes on the "H" machine. The "J" brush is soldered to the trough, while the "H" brush is movable in a shorter trough which is fastened to the brush-holder.

Very truly yours,

1883-09-17

Govt. 17th. 3

G. W. Wilber, Esq.

Corner 4th. & Bodden Sts.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 16th. inst, it would be  
as well for you to send us a special report on Fall River.

Very truly yours,



1883-09-17

Sept. 17th. 3

Messrs. Harris & Robinson,  
Room 2, Trust Co's Building,  
Hartford, Conn.

Dear Sirs:-

Referring to your letter of the 13th. inst., I beg to say that we mean by "House Lights" the number of lights used in a house. It is impossible for a canvasser to get into a house and find out how many lights are burning, but by deciding the character of the house he can make a very accurate estimate.

I send you under another cover duplicate maps of Hartford, Danbury and Southington, also the Isolated plant books you asked for.

In reference to estimates, we have no available copies at the moment which we could send to you, and we are so pressed with work that it would be impossible for us to get these done at once. I will, however, send you copies as soon as I can get some made.

Very truly yours,

1883-09-18

35 Fifth Avenue,

New York, Sept. 18th, 1883.

J. W. Mackenzie, Esq.

Caro Time Telegraph Co.

Temple Court,

6 Hickman Street, City.

Dear Sir:-

In consequence of the <sup>pressing</sup> ~~business~~ nature of my business, and many things that I am interested in, I would like to surrender all interest in your transmitter for England, on your reimbursing me any amount that I may have incurred up to this writing in connection with said invention. I am compelled to take this course, owing to my time being so fully occupied, that I feel it is impossible for me to deal with the matter in a manner satisfactory either to you or myself.

Very truly yours,

S. J.

1883-09-18

Sept. 18th. 3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.  
City.

Dear Sir:-

I am in receipt of a letter from Mr. Batchelor, and I beg to submit to you the following extracts for the Defect Report:-

"The 'C' dynamos all came to Milan without having the bearing places of the shafts tallowed. They were wrapped with paper and then outside of this was some tallow, but not inside. The sea air so rusted them that it took over two months to get them to run without heating. They ought to tallow them well and afterwards wrap them with a piece of felt that has been dipped into melted tallow..

Armington Engines. The Armington engines came not entirely together and there were no marks to tell which piece belonged to each engine."

Dynamos. Under the commutator bars we have always put japanned paper instead of mica in the small sizes of dynamos. I find that in many cases this paper is carbonized and sometimes even we have noticed nothing wrong with the machine particularly.



1883-09-18

Sept. 18th. 3

W. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Enclosed please find map of Southington; which requires  
an algebrical determination, according to the red lines. It is  
to be all pole lines.

Yours truly,

*J. A. C.*  
7.

1883-09-18

Sept. 18th. 1883.

Gustave Saldan, Esq. Mupt.

104 George Street, City.

Dear Sir:-

I am in receipt of a letter from Mr. Batchelor in which he says that the "C" dynamos all arrived at Milan without having the bearings places of the shafts tallowed. He says they were wrapped with paper and outside of this was some tallow, but not inside. The sea air so rusted them that he says it took him over two to get them to run without heaving. He says that with the next shipment you ought to tallow them well and afterwards wrap them with a piece of felt that has been dipped in heated tallow.

Franklin On Dynamos. Mr. Batchelor states that under the commutator bars <sup>they</sup> have always put japanned paper instead of mica, in the small sizes of dynamos. He says that they find in many cases this is carbonized and sometimes even they have noticed nothing wrong with the machine particularly <sup>they are</sup> using mica in them now.

Yours truly,

*F. A. G.*

1873-09-18

Sept. 18th. 3

Messrs. Armington & Sims,  
Providence, R. I.

Dear Sirs:

I am in receipt of a letter from Mr. Hatcholer in which he states that the Armington engine arrived in Milan not entirely together and there were no marks to tell which piece belonged to each engine.

Will you kindly have this matter adjusted in future, and oblige,

Very truly yours,

*Gal*

1893-09-18

Sept. 18th.

3

Societe Electrique Edison,

Paris, France.

Dear Sirs:-

I beg to acknowledge receipt of your favor of the 31st. August in reference to electric railway. In reply I would say that it is impossible for me to take this matter up, as I have too much work on electric light business.

Things are "booming" here in village and city plants.

Very truly yours,

*Tak*  
7



1883-09-20

Sept. 20th.

3

T. A. Edison, Esq.

Weyers National Hotel,

Shawokin, Penna.

My Dear Edison:-

Your telegram came to hand asking for chemicals, motors, scales &c., and the various articles enumerated have been shipped. The motors were kept back purposely; the rest of the articles should have been shipped but for a blunder, which I suppose I must take the credit for.

Soldan started to test the 300 light machine yesterday, but found a cross in the armature, and when I left the Works this morning this trouble had not been fixed, but he promises to let me have a report on a partial test this afternoon, but up to this writing it has not yet come to hand. As soon as I get it I will send it to you..

I saw Dowlen to-day in reference to the cable, and he says it is impossible to state exactly when they can deliver some of it, and as it is a new thing he is depending entirely upon the factory as to when it will be turned out. If it was an article of ordinary manufacture he could name a time, but says he will push it through as quickly as possible.

1883-09-20

Sept. 20th.

2

I was in the central station to-day and Chinnock was trying a pair of the new brushes. There was quite some heat from them, and one brush had got burned very badly indeed. When I left, however, the brushes were working a little better, and he was carrying 600 or 700 lights on the brushes from the district and not from the test lamps upstairs.

I had a man in here to-day from Fitchburg, Mass. He runs the Thomson-Houston business and wants to get up Edison Companies in about ten towns. He came on here at the suggestion of Sims, and I think that when you get to Brockton next week you can make a "dicker" with him. I am to see him to-morrow again. He is one of those real live fellows, and he would have closed a contract with me on the spot. Of course such difficulties as terms he has got to be talked into.

I hope you are enjoying the bad "grub" and the "two-for-one." I will go to Dolmenico's to-night and eat a double sized dinner, so that you can imagine you have had part of it.

I enclose you the latest emanation of the Engineering Department. It is a most beautiful piece of blue printing, and will no doubt go a long way towards cheering you on in your

1883-09-20

3

Lonely way in Shamokin.

Yours very truly,

1883-09-20

Shamokin

Sept. 20th, 1883.

Thomas. A. Edison, Esq.

Weyers National Hotel,

Shamokin, Penna.

My Dear Edison:-

Since writing to you this afternoon I have seen Solder, and he says that he has tested the 300 light machine. He ran the armature at 1100 revolutions and got 200 amperes out of it at 113 volts. The armature was perfectly cool at the time he left the shop to come up to see me, and the machine had been running <sup>1</sup> 2 hours. He seems highly elated over the result of the test, as he says it has come out exactly in accordance with his calculations.

Yours very truly,

1883-09-21

Brockton

Sept. 21st. 3

M. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Your two very lengthy letters of the 18th. and 20th. came duly to hand.

With relation to the extra tubes desiradete be laid by Mr Garrison in place of the pole lines proposed to be put up and provided for in his contract with me, I have under instructions from Mr Jenks ordered the Tube Company to lay 2000 feet of tubes in such streets as Mr Jenks may indicate. I have also ordered from Mr Krugosi, at the instance of Mr Jenks, 30 lengths of two wire service tubes for use at Brockton. I understand that these were ordered on your suggestion. In your letter of the 20th. you says it is desirable to use mostly three wire service, but inasmuch as the order has been placed for two wire service it is impossible to cancel it without considerable loss to the Tube Co. or Mr Garrison. I think the matter had better stand as it is at the present time, namely, to use two wire service as much as possible.

The connections devised by Mr Johnson have been ordered from Hermann & Co. and will be sent forward to you as quickly as

possible. The feeder safety catches have also been ordered for you and these will be forwarded as quickly as they are turned out. The switches asked for in your letter of the 10th. have also been ordered. The feeder indicators are also being pushed forward as quickly as possible and will be sent to you at the earliest moment. The three house changing switches which you refer to were ordered, but the order was subsequently cancelled, and the switch designed by Mr Andrews will take its place.

With relation to Lawrence, the first part of my contract, known as Order No.1, and which I am now putting in, calls for two 400 light machines, later on I am to put in two more 400 light machines, the "K" machines which they now have acting as a spare. If they want 200 light machines instead of "K" machines they will have to buy them. I am writing to Mr Lord on this subject by this mail.

Your report on his wiring corroborates what I have heard from other sources. I will go into the question of the switches and wiring required at Lawrence by you and have the thing fixed up so that you will have no trouble when you come to do the work.

I cannot understand why in one letter you suggest the use of two wire service and in the next of three wires. Acting on your first letter as above stated and under Mr Jones orders,

1893-09-21

3

we have ordered 25 or 30 lengths of two wire services, and propose using the tubes which were sent on for three wire services to extend the system as above referred to..

The reason that things are shipped to Mr Rich is that he pays the bills. I should imagine you could easily arrange with him what cases you are to open, inasmuch as almost all the stuff that comes from Bergman & Co's is for your use.

Exact account should be kept of the time and material used by Johnson in wiring the various houses that he is engaged on.

Very truly yours,

*Lab.*

*Dynamos*

1883-09-21

Sept. 21st.

3

Comitato per le applicazioni dell'elettricità Sistema Edison,  
via Manzoni, 12 A,  
Milan, Italy.

Dear sirs:-

Referring to your several cables and my cables thereto confirmed elsewhere, I beg to inform you that the reason that the 400 Ampere dynamo (they are known as the "H" machine) has been ready to ship for some weeks past. The steamer which should have taken it ran aground on the Long Island shore and has only been got off within the last few days, and it is now discharging its cargo preparatory to taking a return cargo for the Mediterranean. Immediately this or an earlier vessel sails, I will advise you of the shipment of the machine.

With relation to a "C" dynamo, I have several in my shop practically completed, but it will take me some forty days to get an *Armington* engine to attach to one. I therefore cabled you that I could ship one forty five days after order if there was a steamer sailing, and my price for same would be \$0,250., free on board in New York, payment to be made here when dynamo is completed.

At the request of the Ansonia Brass & Copper Co. I added



11883-99-21

to my cable that they desired payment for wire ordered by you on shipment in New York. They will sell you the wire at the same price which they quoted to the Paris Company, namely, 27 cents per pound, and your bill will amount to about \$2,870. In consideration of paying cash in New York, they will allow you a discount of one per cent. This is precisely the arrangement made by me on account of the Societe Electrique Edison, when they were ordering wire from the Ansonia Brass and Copper Co.

Referring to your letter of the 25th September, I have ordered the circuit breaker and uprights for you as requested therein. They will be shipped from here in about ten days.

We have now made a new machine giving 100 lights, and which I shall be glad to sell you in quantities of not less than five (5) for \$400, a machine, F.O.B. New York, payment to be made in New York on presentation of the invoices and bills of lading to your agents here. We are now making a 25 and 30 light machine and also a 200 and 300 light machine. Our experiments on these machines are practically completed, and as soon as we have models out we shall be glad to quote prices to you for same.

We have written to Mr. Jones with relation to the new recording ampero meter. We have not turned out any new meters, the only alteration being a cheapening of the case, which is now made

1883-09-21

made of tin instead of cast iron.

We have ordered for you the 2,000 lamps requested, and they will go forward in the course of a week or so.

Our impression is that your orders should come through the Societe Electrique Maison, of Paris. Will you please communicate with them on this subject and advise us with relation to same.

Yours very truly,

*T. A. J.*

1883-09-21

Sept. 21st.

8

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

Referring to our cable correspondence elsewhere con-  
firmed, patent No. 25 is of too great importance in this country to  
allow of being dropped in Europe. It covers the fundamental  
principles of our automatic regulation, and under the circumstances  
our Company here could not give their consent to the dropping of  
the patent.

Very truly yours,

Tak f

1883-09-21

Sent. 21st.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

With relation to cables confirmed elsewhere, I beg to inform you that the prices given by me for fibres were in accordance with instructions which I had received from the Edison Lamp Co. Two or three days later, after talking it over with Mr. Upton, it was arranged to quote a lower price. When your letter came to Insull stating that Upton had given you a price lower than that mentioned by me or the Lamp Factory, I at once communicated with the Lamp Factory, and decided, after a consultation with them, to send you the cable above referred to.

As to the drawings for the 25 and 50 light dynamos, although the experiments on these machines have been made, we have not as yet got the models out, but we are expecting to get them out in a week or two and immediately this is done drawings shall be sent to you. The drawings of the 100 and 400 light machines will, I think, be sent to you by Tuesday's mail. The changes at the Machine Works have caused some delay in getting out these things, which you must accept as our apology for not sending them to you

1883 09 21

2

earlier.

We yesterday tested the 300 light machine, which gave 300 amperes at 112 volts and the armature running at 1100 revolutions. This is a machine with one pair of cores and will be sold for somewhere about \$1,000. We hope to send you drawings in about two weeks, or may be a little earlier.

I cabled for your proxy for a meeting <sup>of the</sup> ~~of the~~ Light Company on the 24th, September, which meeting is to vote on ~~the~~ an increase of the Company's stock from 2720,000. to 31,000,000. Thinking that the proxy would not reach New York in time I cabled you this morning to sign a Power of Attorney authorizing me to vote your shares at any meeting of the Light Company, and requesting you to have Consul Walker confirm signature, so as to enable me to go on your Power of Attorney. I shall hope to get your reply to-morrow.

Very truly yours,

*T. A. B. I.*

1893-09-21

Sept. 21st.

Deutsche Edison Gesellschaft,  
96 Leipziger Strasse,  
Berlin, Germany.

Dear Sirs:-

Referring to our cable correspondence elsewhere confirmed, I beg to advise you that your cable to me of the 14th, September was unintelligible, and I cabled you to that effect on the same day. I have no cable at this writing and am anxiously awaiting receipt of your letter explaining your desires in relation to 100 light dynamos.

I have ordered for your account a 13 x 13 engine in compliance with your cable to me of the 16th. I am expecting to send you foundation plans by the next mail, at which time I hope to be able to advise you at what date the engine will be shipped.

With relation to the 25 and 50 light machines, my experiments on these machines have been finished, and I will push forward the models as quickly as possible. Immediately they are ready, I will ship them to you and advise you of same.

Very truly yours,

*Edison*

1783-09-21

Sept. 21st.

3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

Your postal of the 18th. inst. came to hand this morning.

The small engine, that you have, was to be used to run the "K" machine now used in your station, and my contract does not call for the providing of an "H" machine for this purpose.

I can supply you with two 200 light machines in the course of about three weeks or a month. meantime I shall be very glad to loan you two old "H" dynamos, providing you will pay the freight on some each way. If you decide to use two dynamos on the small engine you now have, I presume it will be necessary for you to get another pulley, as if your <sup>1</sup> 2 x 10 engine is of the same construction as those we ordinarily use, it has only one pulley on. Will you please let me know your wishes in relation to this matter?

It is very desirable that you should order from us sufficient service tubes to connect the houses, which you are now wiring, on to the mains. Will you please send me a general order to supply these, as I think it would be better to leave it to the Electric Tube Company's option as to what they should send to Lawrence for this purpose, so as to obviate the delay consequent

1973-09-21

2

Upon sending an order for such services that you may require put in. If you will please attend to this matter immediately it will greatly facilitate your work, as the services can be laid while the mains and feeders are being put in. If this course is pursued the expense will be less than if the services are left until the whole system is completed.

Mr. Rich writes me that it is desirable that we should put in the foundation for the 14 2 x 12 engine and the two <sup>1</sup> "H" dynamos, which come under Order No. 2, at the present time, in order to save us expense when filling your second order. I presume there is no objection to our pursuing this course, providing that we carry the expense of this work until such time as you should give us an order to finish the whole of the work specified in our contract. Can you give me any idea as to when you are likely to order the completion of the plant, as I am at present out of "H" dynamos, and would like to know when you ~~xxx~~ will probably call on me for them for this purpose.

Very truly yours,

*John I.*

P.S. At this writing it is impossible for me to give a firm price for the 200 light machines, but they will probably cost about \$700, each, but ~~xx~~ as to this I cannot tell at the moment.



1883-09-21

3

as I have not got out my models at this writing.

Battery, St.

1883-09-26

Sept. 26th.

3

Paul D. Nyor, Esq.

Empire House,

Akron, Ohio.

Dear Sir:-

I have your favor of the 24th. inst., and hope you will be able to capture the hotel man who has gone wrong on "storage batteries".

On Saturday night last we started up at Shemokin. Mr Edison returned this morning and speaks very highly of Shemokin as a place for lighting and the great possibilities of making money there.

On Monday night we shall start the Brooklyn station and a week or two after the Lawrence station. So you see things are progressing pretty lively up here.

I hope you are feeling better, and would suggest that if you are at all sick that you should slacken up a little on the work.

Very truly yours,



1883-09.56

Sept. 28th. 3

George W. Bliss, Esq. General Supt.  
Chicago, Ills.

Dear Sir:-

Referring to your favor of the 17th. inst., which would have had my attention earlier but for my absence from town at Shanghai, I beg to state that the gentleman who reported to me about the Palmer House was a Director of our Company for two years, and thoroughly understands the difference between an arc and an incandescent light, and he positively states that our lights go out quite often. Inasmuch as he boarded at that hotel for some time, he must have had ample opportunity of knowing exactly what occurred.

Yours truly,

*Laing*

1873-09-26

Sept. 26th.

3

W. J. Bull, Esq.

18 Market Street,

Harrisburgh, Penna.

Dear Sir:-

*Suddenly*  
I had to leave Harrisburgh to go to Brockton to start a station there. The Shrewsbury station was started on Saturday night. ~~but~~ I think you had better wait about ten days until they get some connections connected and then you might go up there with your friends and see how the thing runs.

Very truly yours,

1583-09-26

Sept. 28th.

5

W. D. Rich, Esq.

Caro Nelson Electric Tr. Co.

Lawrence, - Mass.

Dear Sir:-

Mr. Edison has just returned from Shamokin and reports the starting of the station there in good style. He is very much pleased with everything there, and says that he looks forward to the Shamokin station being very successful. He wished me to draw your attention to several points, which he made a note of while in Shamokin. He says that the dynamo should be leveled so that the arms will not run to one end. When water piping bearings, he thinks you should put an extra cock so that a rubber hose 4 inch in diameter can be put on in addition, so that if the oil cup is taken off the hose can feed water right into the bearings. He thinks that the pump should be so arranged that it can take steam from either boiler, (where more than one boiler is used) at Shamokin it was only possible for the pump to take steam from one boiler.

Yours Truly,

1883-09-26

Sept. 25th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Referring to your undertaking to dispose of the bonds of the Shenokin Company, I shall be glad to hear from you as to exactly what arrangements you have made for the disposition of those bonds, inasmuch as it is my desire to make an immediate settlement with the Shenokin Company.

Yours truly,

*T. C.*

1583-07-26

Supt. 25th. 1883.

Gustavo Soldan, Esq. Supt.

104 Second Street, City.

Dear Sir:-

If it is not objectionable I should like to have an extra hole on dynamo bearings an inch or so from the oil cup with a screw plug for passing water to bearings through a flexible tube, and thus render it unnecessary to unscrew the oil cup in case it should be thought desirable to use water on the bearings to prevent heating.

Yours truly,

J. L. G.

1883-09-26

Meters

Sept. 26th. 3

Messrs. Hermann & Co.

203 Avenue N, City.

Dear Sirs:-

Do not tie a knot in the flexible cords inside of the meters in future. You have been told of this twice. The copper wires attached to the wires in the 41 light meters are too long. I think you should cut off about  $\frac{3}{4}$  of an inch, but you can find the absolute length by testing. The wooden plugs inside meters are japanned wet and stick so that we cannot pull them out of the meters. They plugs should be japanned and dried before putting in.

Yours truly,

Za, E.



1883-09-26

Sept. 26th.

3

J. U. Mackenzie, Esq.

Care Times Telegraph Co.

Temple Court, City.

Dear Sir:-

Can you give me the recipe for the duplicating ink?

I want to get some made for office use.

Yours truly,

Tall

1883-09-26

Electric Pen

Sept. 28th.

3

John P. Rogers & Co.

62 India Square,

Boston, Mass.

Dear Sirs:-

I have not got on hand this moment the recipe for making my duplicating ink, - but I have written to the assistant who used to make it for me to see if he has got a copy of the recipe. Immediately I hear from him I will communicate with you.

Your letter has remained unanswered since its receipt, owing to my absence from the city.

Yours truly,

Yale

1883-09-26

Sept. 26th.

3

J. L. Green, Esq.

Tahoe City, Lake Tahoe,

Placer Co. Cal.

Dear Sir:-

Referring to your inquiry as to motors, I beg to state that we can furnish you with a motor, but I do not see exactly how you could use it, as you say nothing about where you proposed getting your electricity from to run the motor.

Yours truly,

*Zach*

1893-09-26

Ore Milling

Sept. 26th.

3

Franklin Mallon, Esq.

115 West 5th. Street,

Leadville, Col.

Dear Sir:-

Referring to your favor of the 16th. inst., Mr. Edison desires me to state that he has not got a machine which will separate oxide of iron due to roasting iron pyrites. His machine only separates magnetite, but undoubtedly such a machine as you desire could be designed if the business promised to be of sufficient magnitude to justify of the work.

Yours truly,



1883-09-26

Sept. 26th.

William F. Brewster, Esq.,

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

Your letter of the 23rd, inst. came to hand this morning.

I am very sorry that I did not see Captain Hoffinger. I am doing nothing about canvassing New Orleans. Will you please find out from Captain Hoffinger exactly what he expects done in the matter, and let me hear from you on the subject.

I trust that you will be successful in putting through the St. Louis Company. For sometime passed we have had draughtsmen engaged upon the detailed drawings of the station there, so that immediately the matter is closed up we can proceed with the work.

The Louisville map is a very heavy one to make, but I am promised it in about five or six days, and I shall then want some lots looked up for central stations.

Nothing has been done about Newell's Park lately. I will look the matter up and see that it is pushed.

We can take care of all trouble from water or other causes at New Orleans.

Yours truly,

L. A. J.

1883-09-26

Sept. 20th.

3

C. P. Britton, Esq. Secty.

Dept. Public Charities & Correction,

66 Third Avenue, City.

Dear Sir:-

Referring to your favor of the 25th. inst., our engineer is busily engaged in making the plans and estimates for lighting Hart's and Ward's Islands, and we shall hope to have them in such shape as to be able to send them to you in the course of a few days.

Very truly yours,

Lal.

1883-09-26

Sept. 20th.

3

Charles Hatchelor, Esq.

Paris, Franco.

My Dear Hatchelor:-

Your letter of the 11th. came duly to hand.

We cabled to you for \$2,000. because we were in a hurry  
of a box, and bills were on the way equalling that amount.  
Since the money was received, however, we have given the Societe  
Industrielle credit for the overcharge on the fibres, which leaves  
only about \$200. in their favor which cannot be considered any  
great amount, as the <sup>Account has</sup> ~~amount~~ run the other way on my books  
for months at a time.

Very truly yours,

*Yale*

1883-09-26

Sept. 20th. 3

Henry A. Clarke, Esq.

Erie, Penna.

Dear Sir:-

Your favor of the 11st. September has been referred to me for reply.

The estimate for the installation of a central station plant at Erie is put in as a whole and is not to be accepted in lots. The tender is made in one account, the items being simply given for your convenience and guidance as to what makes up the estimate. If the Erie Company require any items struck out; I shall be very glad to consider the matter.

It will be quite impossible for me to get to Erie to attend the meeting. When your Company is organized and they are prepared to make a contract for the installation of a plant, my private Secretary, Mr Insull, will go on to close the matter with them, unless it can be done by correspondence.

Very truly yours,

L. A. J.



1883-27-26

Sept. 26th,

3

S. C. Lynch, Esq.

60 Washington Street,  
Chicago, Ill.

Dear Sir:-

Referring to your favor of September 24th., I shall be  
very glad to look into the matter of the Persett Conduit, and will  
talk the matter over with Mr. J. R. Burdick when he calls to see me.

Yours truly,

*W. A. J.*

1883-09-26

Sept. 26th.

3

C. C. Sims, Esq. Supt.

Arrington's Sims Co.

Providence, R.I.

Dear Sir:-

Would it not be a good idea to have two extra valves and rings for each of our central stations? If so, would the pistons fit? How about ~~the~~ extra Rabbit shelves for all engine bearings, concerning which I spoke to you?

Yours truly,

*John J.*

1883-09-27

Sept. 27th.

3

H. M. Doubleday, Esq.

Edison Exhibit, Louisville Exposition,

Louisville, Ky.

Dear Sir:-

Will you please supply me with the information which  
Mr. Clark desires in relation to the cards sent by you, returning  
the cards at the same time.

Yours truly,



Enclosure.

1883 09:27

Sept. 27th.

Charles Hatchelor, Esq.

Ivry-sur-Seine, France.

Dear Sir:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I was thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Very truly yours,

*Talbot*

1883-09-27

Sept. 27th,

3

Compagnie Continentale Edison,  
Paris, France.

Dear Sirs:-

Your favor of the 10th. Inst. came duly to hand, and in reply I would beg to state that it seems to me that the action of the Russian authorities with regard to Set No. 2 places your Company in a position to remedy in Russia the mistakes which have been made in other countries with regard to this important patent, by discarding the great mass of unimportant matters and confining the case to the points which experience have shown to be of great value. I consider this point to be:-

First. The placing of an incandescing conductor in an exhausted chamber made entirely of glass with leading in wires connected into the glass, and

Second. The driving out of the incandescing conductors of the occluded gases by raising said conductor to incandescence during the operation of exhausting the lamp globe.

The specification describes lamps of carbons as well as those of metals, and care should be taken to make it clear that the points are intended to be covered without regard to the material

1883-09-27

23

of which the incandescing conductor is made. The matter I think should be made the subject of one division. If a second division is decided upon, the motor connections shown in figure 73 should be made the subject of it since. I consider that arrangement as the next in importance.

The following should also be covered. The arrangement of a motor shown in a shunt around a definite resistance in the main line and the use of a compensating resistance in the circuit with the coil. The motor shown in figure 74 could also be included in the case.

I see nothing further of any considerable importance in the case which could probably be patented in Russia;

Yours very truly,

*L. A. J.*

1883-09-27

Sept. 27th.

8

L. W. Serrell, Esq.

140 Nassau Street, City.

Dear Sir:-

Referring to your letter of the 23th. inst., will you  
please let me know what the first account in the Nicholson case is?

Very truly yours,

J. A. J.

1883-09-27

Sept. 27th.

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

I am in receipt of your favor of the 24th; August,  
and have cabled the Milan Company to send me a cable remittance  
for \$3,000. to cover the amount of my account against them, less  
the four regulators and the Armstrong & Sims engines. I have not,  
however, at this writing received any reply, and accordingly  
cabled you to-day to this effect, as confirmed elsewhere.

I have received from the Milan Company an order for  
lamps. I think it would ~~certainly~~ facilitate matters, and be  
certainly a convenience to myself, for all orders of the Milan  
should come through the medium of your office. Will you please  
endeavor to arrange this for me, and greatly oblige,

Yours very truly,

*T. A. Edison*



1883-09-27

Sept. 27th.

3

W. L. Garrison, Esq.

P. O. Box 3647,

Boston, Mass.

Dear Sir:-

Mr. Edison and myself will leave for Brockton on Saturday night, it being Mr. Edison's intention to start the Brockton station on Monday night.

I propose to return to New York on Tuesday, and if you can conveniently arrange matters so that I can bring back with me a check for \$15,000., it will be a very great convenience to us.

Very truly yours,



1883-09-27

Sept. 27th.

Henry A. Clarke, Esq.

Erie, Penna.

Dear Sir:-

Your letter of the 24th. September has been forwarded to me at the above address.

If you have any enquiries to make about my estimates and will address them here, you will always get a prompt reply. I stay such a short time in a place that it is seldom that you can reckon on catching me.

As I wrote you yesterday, the bid made to you is made as a whole, and I should hardly feel disposed to have it cut up, although of course I should be glad to consider any proposition that the Erie Company may have to make. Our experience, however, in doing this has so far been very bad. At Shamokin, where the local Company undertook to do a great deal of the work themselves, we had a very great deal of trouble, and our Superintendent had to go there to superintend the work, notwithstanding it was the local company's place to do it. The delay in consequence of the course they pursued was very great, and decided me to refuse to take contracts in the future, unless the whole of the work was left for me to do.

Very truly yours,

*W. L. G.*

1883-09-28

Sept. 28th.

3

Societe d' Appareillage Electrique,  
Geneva, Switzerland.

Dear Sirs:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Very truly yours,

G. A. K.

1893-09-28

Sept. 30th.

8.

German Edison Gesellschaft,  
93 Leipziger Strasse,  
Berlin, Germany.

Dear Sir:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of those.

Very truly yours,

1873-09-29

Sept. 20th.

3

Messrs. Harris & Robinson,  
Room 3, Trust Co's Building,  
Hartford, Conn.

Dear Sirs:-

I have your letter of the 17th. inst., in reference to the Hartford and Southington estimates which I promised to send you on the 20th. My engineer, Mr. Campbell, has been ill for the last four days and is still confined to his bed, and it is impossible for us to tell when he will resume work. His absence from the office was the cause of the estimates not having been forwarded to you. I regret the circumstances exceedingly, but as you will see it was a matter over which I had no control, and I may add was totally unlooked for when I made the promise to send the estimates to you on the 20th.

I am obliged for the information you give in reference to Bridgeport, and will refer that matter to Mr. Hutchinson of the Insulated Company.

Very truly yours,



Private Secretary.

1893-09-29

Sept. 29th.

3

Friend Conkling:-

I am very desirous of obtaining a contract to light one or two of the City Institutions where I am certain I can effect a considerable saving to the City and give better satisfaction.

Their gas system being especially defective on Hart's and Ward's Islands, for which I have made a tender. Would you object to giving me a letter of introduction to Mr. Ross one of the Commissioners having such lighting in charge. With a statement that we are reliable people, our statements are to be relied upon and that we will undoubtedly perform our work in a satisfactory manner. Of course they may be reasonable why you would not like to do this, if so all right.

Very truly yours,

1872-09-29

Sept. 29th. 3

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

I regret to say that through the illness of my engineer, Mr Campbell, who has been off duty for the past three days, and it being impossible for us to tell when he will again report at the office, the estimates for Newburgh have been delayed. I am doing my best to get them out for you and will send them at the earliest possible moment, but with this explanation you will no doubt recognize the circumstances we are in and the great pressure under which we will have to work in order to keep pace with our business during Mr Campbell's absence.

Very truly yours,



1883-29-29

Sept. 20th.

Paul D. Dyor, Esq.

Empire House,

Akron, Ohio.

Dear Sir:-

I have your favor of the 17th. inst. acknowledging receipt of the report blanks and books.

In reference to the latter, I did not intend to alter the form of your canvassing, and you can use these as blank books if you choose, but in sending them to you I thought you would probably be able to utilize them to advantage by entering the rights on the books first and copying them on to the form afterwards. You can, however, please yourself.

Very truly yours,





(883-10-01

October 1st.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

I have your letter of September 28th. in reference to details of building the central station at Newburgh. Mr. Campbell, my engineer, who compiled the estimate for this building, is still confined to his bed, consequently I am unable to send them. The additional estimates are also being delayed for the same reason but all of them will go forward to you at the earliest possible moment.

Very truly yours,

Tag  
Y

1883-10-01

October 1st. 3

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

Mr. Edison and Mr. Insull are both in Brooklyn and will probably not be back until the end of the week. Campbell is still "laid up", and I have got my hands so full that it is impossible for me to touch the Newburgh estimates, at least for a day or so. I will do all I possible can to send them to you, but you see the fix I am in and the difficulty of meeting your requirements with the despatch which generally characterizes our business.

Very truly yours,

*Ans*

1883-10-02

October 2nd,

3

Samuel Insull, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Insull:-

I have received all your numerous communications, and this morning went down to Hermann's to see about pressure indicators and meters.

I find without waring Andrews that he requires six pressure indicators of the new style or five of the old style, as he took one of the old style with him when he was here. I ascertained this from a letter which arrived a day or two ago and which was among the bundle you gave me. Klein or somebody down there mixed our meter orders all up, but fortunately I got there before anything serious had occurred. As it is there must be returned from Brockton one 50 light meter. He sent five 0 light meters too many to Shamokin and he sent ten 0 light meters in excess of our order to Lawrence. I will have all those returned according to their instructions at their expense. Klein at first thought we had mixed our orders up, but upon analyzing it thoroughly he found that they had made the mistake themselves, and, consequently, walked into a "shipper".

I have seen Bradley this afternoon and he goes to Brockton to-night. I have given him two hydrometers and he is getting all the tools necessary for finding out the bugs in the conductors, from Chinnoek. He is going to Brockton by rail. The Shamokin hydrometers were sent some weeks ago.

Referring to the ~~order~~ <sup>order</sup> ~~for~~ <sup>for</sup> ~~switches~~ <sup>switches</sup> for Brockton, I was not asked to order 12 large plug switches for feeders by Sprague. He stood beside me while I wrote the orders for material which he required, and those were not mentioned. I, however, find that there were only 8 instead of 12 (as you stated) of the old style feeder switches ordered for Brockton, and have consequently ordered 10 of the new style plug switches from Bergmann to be shipped at once.

I have ordered 100 Johnson connections in accordance with your letter, and have given proper instructions as to the shipping of 50 of them. Bergmann has on hand at the moment 50 of these connections from the last lot ordered. These go forward to Lawrence at once.

In reference to test bank switches, Bergmann told me that those were sent forward with some other material to Sprague's address on Saturday. On Monday I told him to send two more, as they had probably gone astray, although it seems strange how they

1883-10-02

3

could have done so. I trust that by this time they have been received.

I received your Godsend in the shape of \$5,000. and have had same placed to our credit without meeting any opposition at the bank.

I have had all the baby stuff packed in ice and forwarded to the address you gave me. It will be a "cold day for you" when it gets there.

Referring to the amount which I placed in the Fall River estimate for "Tools" for repairs to underground conductors", at the time I made up the Fall River estimate I had only one bill from Russi for tools sent to Brockton, and I was under the impression that this included all the tools which had been sent there. I should, however, have looked more closely into the matter and I would have soon when I made the mistake. Can we not supply tools to the amount of our estimate for same, and if they want more they can purchase them? I say this merely as a suggestion to try and help myself out of the scrape, but privately my opinion is that we will have to supply the whole lot for about one half the price, and that it is through a "damned bull" of mind that we have got to do it.

1883-10-02

I saw Mr. Johnson this morning at Bergmann's, and I told him about the success that attended the starting of the Brockton station, and also said that you informed me that Rich deserved tremendous credit for the work he had done. Mr. Johnson wanted to know where Sprague came in and Bergmann told me to tell you--- "I will never mind what he told me to tell you, it would sound much better over a telephone!"

I have not yet heard of your closing the Fall River contract, but I hope to be made aware of the fact before going to bed to-night.

Everything here is going on all right and there is nothing special to bring you back if you are not fully prepared to come.

Hughes just came in and says he is going to stay right here until he gets the Newburgh estimates. I have not had a chance to touch them, and I do not know that I should care about doing it if I had. Campbell has the matter partly in hand, in fact nearly finished it, and if I take it in hand now it will be necessary for me to go through it right from the start, and my hands are too full to attempt anything of that kind. I expect Campbell will be here in a day or two. I wrote to him last night and practically told him that he must come soon, notwithstanding

1883-10-02

5

the advice I gave him towards the end of the letter to the effect that he should not go out of the house until quite well. I tried to convey to him the idea that the Department could not run very well unless he was there himself or else keep ~~somebody~~ of these under him posted in such a manner about what he was doing as to enable them to know a little about the business in his absence. As it is now he carries most of the information which I want to get at, such as details of the construction of the station, in his head.

I will get the bills of lading from Hayward, Perry & Franklyn to-night, have been unable to obtain them before that ~~time~~ will have the money in the bank to-morrow morning.

I am delighted to hear about the success you have met with in Brockton.

I will go thoroughly through the Lawrence orders, and see that there are no "hitches" when the time comes for starting up there.

I enclose two letters from Mr. S. J. McCutcheon. Upon the arrival of the first one, which is the double pagod one, I sent him a note saying that Mr. Edison was in Brockton and giving him Mr. Edison's address. The second one is a reply to my note, above your signature. I do not know whether they are of any

1883-10-02

6

great importance or not, and as I have no means of finding out,  
I presume the best thing to do is to send them to you.

Very truly yours,

*Gate*



1883-10-62

*Telephone - Foreign*

Office of the

Edison Telephone Company of Europe, Limited,

New York, October 2nd, 1903.

To the Directors of the Edison Telephone Co., of Europe, Limited,

Dear Sirs:-

Referring to your letter of September 14th., in which you authorize me to settle with Colonel Gouraud on the best terms possible as to the division of the 175,000 shares of the Edison-Bower-Hall Telephone Company of Europe, Limited, I beg to say that I have fully discussed the matter with Colonel Gouraud with a result that he is not satisfied with any other than an equal division for the reason set forth in his letter to this Company, dated July 30th. (Extract Annexed)

I am myself agreeable to settling with Colonel Gouraud on that basis, but I find that I am personally interested in some of the shares that he will receive, arising out of the fact that he and I jointly contributed in the sale to the Edison-Bower Hall Telephone Company of several countries which did not belong to the Edison Telephone Company of Europe, Limited, namely, Denmark, Sweden, Norway and Portugal, and because of this personal interest I am unwilling to take the responsibility of alone settling with Colonel Gouraud as authorized by your letter above referred to. I have therefore to request that you will be good enough to sign the enclosed letter, if you approve of same, and return it to me at your early convenience.

*W. H. Dickinson*

1883-10-02

October 2nd.

Paul A. Dyer, Esq.

Equity House,

Akron, Ohio.

Dear Sir:-

I am in receipt of your several favors of the past week, and I am sending to your Address twelve new catalogues, <sup>Isolated</sup> and I would impress upon you the necessity of using these very judiciously, as they cost 34 cents apiece.

Mr. Stuart has been here for the past week obtaining information, and I think we have satisfied him on a great many points about which he was in doubt, and I have reason to believe that affairs in Ohio will be pushed to more advantage now than they ever have been before.

We are much obliged for the way in which you keep us posted as to the workings of rival companies. I think that the wave you speak of will soon commence rolling through Ohio, and it is already assuming very fair dimensions in the East, and we anticipate to do good work through Ohio in the Spring. It is rather late to commence work there now, as in a few weeks frost will set in.

Very truly yours,



1883-10-02

October 2nd. 3

P. B. Shaw, Esq.

Williamport, Maine,

Dear Sir:-

I am in receipt of your favors of the 28th, ulto., one addressed to Mr. Wilson and the other to myself.

In reference to the former I would say that we had no such arrangements with Mr. Hutton as you mention. We were to run the station for thirty days after it was ready to supply light; we made no agreement to run it for thirty days after a new wick was supplied. I will, however, attend to this matter when I meet you on the 8th, inst. I can forbear nothing now to prevent me from keeping this engagement.

Very truly yours,

*S. J.*  
7

1883-10-02.

October 2nd.

A. Stedert, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

I am in receipt of your favor of the 30th ult., and have to-day sent you under separate cover the chart of Highlandtown showing the total number of lights in the district marked off, the average burning of which amounts to 173 lights for four hours and fifty nine minutes.

I also sent you a form of agreement between ourselves and the local company. In each case the payments are as follows:-  
25<sup>0</sup> of the total amount of the contract upon the signing of the agreement; 30<sup>0</sup> of same when the installation is ready to supply light, and the remaining 45<sup>0</sup> after the installation has been in condition to supply light for thirty days.

Trusting that this will meet with your requirements, I

am,

Very truly yours,



Enclosure.

1883-10-02

October 2nd.

3

John R. Campbell, Esq.

Care P. B. Shaw,

Williamsport, Penna.

Dear Sir:-

I am in receipt of your several favors in reference to permits and concessions for running our lines in Williamsport.

I consider that you made a mistake when you first went to Williamsport in not finding out definitely what the idea of the Williamsport Company was in reference to your obtaining these permits. As it is they first decided to obtain them themselves, and after delaying you in Williamsport reconsidered the matter and allowed you to go ahead with the work which you were sent there to do. This matter will prove very expensive to us in comparison with what it should have cost had you gotten through with it in a reasonable length of time.

In future it would be well for you to sound local authorities to better advantage than you have done in this case and try to obtain their ultimate ideas from the start, as we cannot afford to allow you to wait in each place an excessive length of time, in order to allow the companies there to change their minds a half a dozen times.

I will send you some money either to-morrow or the next

1883-10-02.

2

day, with instructions as to where you are to go next.

Very truly yours,

Yale

1883 To 562

October 2nd.

C. H. Campbell, Esq.

White Plains, N. Y.

*My Dear Campbell!*

I got your telegram this morning telling us to make allowance for piles in the construction of the Fall River building. Inasmuch as the ground is of rock, we have made allowance for the necessary excavations, and it will hardly be possible to drive piles through such a substance.

Hughes is still awaiting additional estimates for Newburgh. These I am unable to send him as I have not got a map which is properly marked. You will remember that one of the fenders was cut <sup>off</sup> a certain street and run around towards the top of the map.

Harris & Robinson continue to "kick" about Southington. I hope to send them Hartford to-morrow.

Mr. Edison and Mr. Insull are both away and will not be back until the end of the week, and I have no time to prepare estimates.

I have got all the plans of the West Shore & Buffalo buildings which we are requested to bid for. The Ohio business still remains in abeyance.

1883-10-02

2

I merely send you this to let you know how we are getting along without you and to illustrate that your very valuable services are missed. I hope you are much better and that nothing serious has developed in your case, and would impress upon you the advisability of not coming out of the house too soon, as this is sometimes a fatal mistake made by your fellow invalids.

Drop me a line and let me know how you are getting along.

Sincerely yours,

Alfred



1883-10-03

October 3rd.

3

W. E. Andrews, Esq.

National Hotel,

Shenandoah, Penna.

Dear Sir:-

Referring to your favor of September 24th. in reference to pressure indicators, I beg to say that I have ordered forward six of the new style pressure indicators to your address at Shenandoah.

Regarding 60 candle power lamps ~~the~~ the local company want any of these they can obtain them by ordering through the Light Company, as you understand all orders for lamps must be submitted through that source.

Very truly yours,



1883-10-03

October 3rd.

3.

C. C. Sims, Esq. Supt.

Care Arrington & Sims Co.

Providence, R. I.

Dear Sir:-

Our office has sent you to-day a check for \$1,875., which you will receive by the express mail as this letter. I have also sent to Edison to-day a note for \$1,875., dated September 22nd. and running three months, bringing it due on the 25th. December. I have requested Mr Edison to sign it and send it to you immediately he gets it, and would suggest that you telephone him about eleven o'clock to-morrow at the Brockton central station, and ask him whether he has sent it to you, and if not, request him to do so immediately. This will insure your getting it.

If you will send me a memorandum of the cost of the discounting, I will send you a check for same.

Very truly yours,



1883-10-03

October 3rd, 1883.

Gustav Solder, Esq. Supt.

104 Goreck Street, City.

Dear Sir:-

The Electric Tube Company will ship you in a day or two  
a U tube junction box to be finished. Please push this through  
with the utmost speed, as the box is for Lawrence and a delay  
would be very serious.

Yours truly,

A handwritten signature, likely of the sender, is written in dark ink. It appears to be a stylized name, possibly 'S. S.' or similar, with a flourish at the end.

1883-10-03

October 3rd.

W. S. Andrews, Esq.

Shawabdin, Panna.

Dear Sir:-

Your letter of the 1st. inst. to Mr Insull, enclosing statement of account, has been received. I will have the latter checked and advise you as to the result.

I received a telegram to-day from Mr. Insull, who is at  
Brooktop, stating that he had authorized you to draw on us at one  
day's sight for \$100. This I presume will straighten out your  
finances.

The Brockton station was started with great success, and Mr. Innull advises me that everything is perfect in connection with the building.

Very truly yours,

*[Signature]* *Q. Sate*

1883-10-03

October 3rd. 3

W. H. Dwyer, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I beg to hand you herewith an estimate for the erection of a central station plant at Fall River, amounting to \$41,000.00.

You will notice in the estimate that I have covered the point requested by you, namely, that the stack should be put in large enough for the boiler capacity required for 4000 lights.

I have also embodied in the estimate that the water connection is to be taken from the river, in addition to the connection of the station with the street mains.

I further enclose you two copies of an agreement, duly executed by me as Mr. Edison's Power of Attorney, and should be glad if you will return one executed by Mr. Dow, as President, and yourself, as Treasurer, together with a check for \$4,100.00, being ten per cent of the amount of the estimate payable on the contract being signed.

A blue print of Fall River sent you herewith forms Exhibit A to the contract and the estimate Exhibit B. Those two should be attached to the copy of the contract which you retain.

1883-0-03

2

With reference to the details of the work, the roof timbers shall be two inches deeper than those at Brockton, and planned in compliance with the suggestion of Mr. Jerome Gordon. The plant will of the same character as that at Brockton and the work finished off in the same style.

In the blue print of the central station, which I send you herewith, you will notice that the boilers and engines ~~were~~ have been turned around as suggested by you. The space in the boiler room is amply sufficient to enable us to add two more boilers of 140 horse power each. The boilers we now propose to put in are two 73 horse power boilers set in one battery, or, in other words, a double 140 horse power boiler. This is done in order to get a subdivision of the boiler power. Any future extension we would propose installing a single 140 horse power boiler, that is a boiler with one furnace. The total boiler power would then enable you to take care of 3200 lights, then when you require to make a further extension we would take in another 140 horse power single furnace boiler, which would bring your boiler capacity up to 4800 lights. There is plenty of room to do this in the building as at present designed, and the subdivision of boiler power, which you will then have, will be quite sufficient, as with a total plant of 4800 lights you would have what is practically four

1883-10-03

3

distinct boilers to take care of same.

I have given the orders to-day for our material, and the work will be pushed on as vigorously as possible in order to get the installation completed within the shortest possible period.

I will advise you from time to time as to our progress, and will doubtless be able to tell you within a week or ten days the date that we shall commence laying our tubes, which is, as you understand, the most troublesome part of the work.

Very truly yours,

~~W. A. C.~~  
W. A. C.  
by J. D. Atty

Enclosure.

1883-10-03

October 3rd.

3

W. H. Dwyer, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Wall River, Mass.

Dear Sir:-

I enclose you herewith a certified copy of my Power of Attorney from Mr. Edison, which it would be as well for you to file in your office, inasmuch as the agreement with him is signed by me.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and appears to be "T. Edison".



1883-10-03

October 3rd. 3

Thomas A. Edison, Esq.

care W. J. Jenks, Manager,

Brockton, Mass.

Mr. Edison:-

I enclose you herewith a note for \$1,375, due the 25th, December and in favor of the Armington & Sims Company.

Please sign this and send it to Sims in the enclosed envelope

IMMEDIATELY you get this. Do not fail to do this, as I promised Sims yesterday that he should have it in order to enable him to meet his payroll, which is due to-morrow or the next day.

I have sent him a check to-day for the same amount as the note, and the two together will settle up our Construction Department account with Armington & Sims for last month, in fact will clear up everything with the exception of the large engine shipped to Lawrence Monday morning. I have arranged the date of the note at such a time that I shall easily be able to take care of the payment of same.

Very truly yours,



Enclosure.

1883-10-04

October 4th. 3

Frank H. McComick, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to apologise for not having answered your favor of the 19th. September before this.

Mr Edison and myself have found it necessary to be away from New York so much of late that this, together with some other matters, has entirely occupied attention. I have been endeavoring to go to Sunbury and Williamsport for some time past, but up to the present have found it impracticable. I have, however, made an engagement with Mr Shaw to meet him in Williamsport on Monday next, the 11th. inst., and I will at the same time no doubt have the pleasure of meeting you and arranging with you as to the transfer of the stock.

Very truly yours,

D. J.

1883-10-04

October 4th.

3

Hon. Jacob Hess,

city.

Sir:-

I have the pleasure to enclose you herewith a letter from the Hon. Roscoe Conkling to your good self introducing Mr. Edison to you.

Mr. Edison is absent from the city at the present time, and will not be back until Monday next, I therefore deemed it advisable to forward this letter to you by the hand of Mr. Russell.

On Mr. Edison's return, he will doubtless do himself the pleasure of renewing his acquaintance with you.

Very respectfully yours,

Private Secretary.

Enclosure.

1883-10-04

October 4th. 3

Henry A. Clark, Esq.

Eric, Penna.

Dear Sir:-

I have the pleasure to acknowledge the receipt of your favor of the 1st. inst., and in reply beg to say that we can complete the work at Eric within sixty days after the signing of the contract. You will no doubt appreciate the necessity of closing this matter quickly, if it is the intention of the Eric Company to do anything this year, as very soon the frost will set in and it will be impossible for us to set poles and make other necessary excavations.

Very truly yours,

J. A. C  
9

18831883-10

October 4th.

3

C. H. Campbell, Esq.

White Plains, N. Y.

My Dear Campbell:-

*Not*  
I have received my answer yet to the letter I wrote you the other day, and I presume you have either been too ill or not had time to write me.

I got the Newburgh-Business fixed up with Hughes this morning without sending any other estimator. *Other than Camp Sum. Bldg. by letter* Other matters in relation to estimates are still "hanging on", and there is one point which Hughes wants very badly that I am unable to give him, and I wired you about it yesterday, namely, the details of the building. The Newburgh Company desire to have a specification of the building you propose to erect for the central station, in order that they may obtain a bid on same from some local builder, who it appears will take the amount of his contract in stock. We should like very much to give this information at the earliest possible moment. The amount you allowed for this structure was \$3,100., the building to be of brick. There are no accessible details in the office, and I presume that you carry this information in your head, just where we cannot get at it. Can you assist us any from where you sit (I hope by this time you are able to sit up)?

1883-10-04

October 4th.

2

I made up the Fall River estimate myself. It is for 3000 lights, with street installation calculated to cover 3000 lights, and the total amount is \$11,100.00. I allowed for freight and cartage \$244., for clerical work about \$400. and about \$973. for the expenses of the electrical, motor and engineering experts, while starting the station. All the other items were made up in the usual manner. This estimate was accepted and the contract closed on Monday, and we are going right ahead with the work. Do you think we will clear expenses on it?

I hope you will be able to come out soon, as things are commencing to "boom", and there are two or three more contracts which it seems to me we are likely to get before cold weather sets in.

Before we "tackle" any new work there are a lot of old matters in the office which I should like to get cleaned up and I cannot do it without your assistance. When do you think you will be able to come back again?

Trusting that you are rapidly progressing towards convalescence, I am,

Sincerely yours,

A. J.

1883-10-04

October 4th. 3

A. A. Cowles, Esq. Secty.

Ansonia Brass & Copper Co.,

10 Cliff Street, City.

Dear Sir:-

I enclose you herewith an order for copper rods to be sent to the Electric Tube Company. These rods are to go in tubes, which will be laid in Fall River, under a contract we have with the Edison Electric Illuminating Company of Fall River.

It is very important that this order should be pushed forward as quickly as possible, as we have but a comparatively short time to make up the tubes and get them laid before frost comes on. We shall therefore be glad if you will make an extra effort to get them out quickly for us.

I will call down to-morrow and show you Mr. Edison's contract with the Fall River Company and give you full explanation as to the matter, which I feel sure will be entirely to your satisfaction, as the parties in interest with us in this matter are of the very best.

Very truly yours,



1883-10-04

October 4th.

3

J. R. Campbell, Esq.

City Hotel,

Williamsport, Penna.

Dear Sir:-

I am in receipt of your letter of yesterday's date, and in reply beg to state that I did not intend my letter of the 3rd inst. to be interpreted as a censure, I endeavored simply to point out the mistake which any one else, placed in the same position, would be liable to commit. I will see that there are no more delays as regards maps, and will also have them properly marked before sending them to you.

I send you by this mail, under separate cover, a map of Lock Haven with the red lines properly shown thereon.

I have your telegram of to-day's date stating that you were compelled to draw at sight to prevent delay, which in this instance is quite satisfactory.

Very truly yours,

J. A. E.

g



1883-10-04

October 4th.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter of the 28th. ulto., and in reply  
beg to state that I will be in Williamsport on Monday next, the  
5th. inst., where I shall have much pleasure in meeting you.

Very truly yours,

S. J.

1883-10-04

October 4th,

3

J.B.A. Edison, Esq.

Care of W. J. Jones, Esq.

Washington, D.C.

My Dear Edison:-

Gouraud has just been in here and is very anxious that the telephone matter should be settled right away. He says that he spoke to you about the <sup>division</sup> of the lower-half stock, and I understand his proposition to be that the telephone company of Europe should take half the stock and he take the other half, on account of the countries he put in under the agreement between you and himself. Will you please wire me instructions in this matter the first thing to-morrow morning, so that I can have the necessary papers prepared. If you will authorize me to negotiate with Gouraud, I will endeavor to bring him down, as considering the dual capacity you hold as President of the European Telephone Company, and a party interested with Gouraud in any shares that he may obtain, I think that you should do your utmost to get as good terms for the European Company as possible, as otherwise the matter might look bad if brought up afterwards.

I got an order this morning for 35,000 lamps for Berlin and 2,000 lamps for London. The first order is in consequence of our reduction in terms, showing the good policy of making the

1883-10-04

3

reduction.

I am very sorry that you did not receive that matter from the printers, but you must blame the express company and not our office, as it was all sent off from here on Tuesday.

Please wire me stating absolutely when you will be back.

I went around to see Mrs. Edison this morning and she seems considerably better. She is going to move this afternoon, and the doctor has undertaken to accompany her, in case of any mishap. I shall wire you to-night stating whether the moving proved disadvantageous to her or not.

I have the honor to be (à la Anglaise), Sir,

Your most obedient and Faithful Servant

A handwritten signature, possibly 'S. J.', in dark ink, located below the typed signature line.

1883-10-05

October 5th.

3

John P. Smith, Esq.

143 East 33rd, Street, City.

Dear Sir:-

My house, 25 Gramercy Park, is now empty, and I shall be glad if you will see to the watching of same, and prevent your bill at the above address each month.

Yours truly,

T. A. G.

1883-10-05

October 5th.

3

Friend Beach:-

I send you herewith an interesting article suitable for your columns on "Storage Batteries" written by Mr. Spencer Borden of Fall River, who sent it to me and asked my opinion.

I think it a very correct article and thought possibly that you might like to publish it.

Very truly yours,

T. A. G.  
J.

1883-10-05

October 5th.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

Referring to a cable confirmed elsewhere, I beg to inform you that I wired you with relation to the Arrington & Sims engine at the request of Gov. Howard and Mr. Sims.

They do not understand why you are unable to deal with Arrington, and if your people are really anxious to get the engine, I can make favorable terms here.

Very truly yours,

*Lab*

1883-10-05

October 5th.

3

J. U. Mackenzie, Esq.

400 Vanderbilt Avenue,

Brooklyn, N.Y.

Dear Sir:-

I wrote you sometime ago asking for the recipe for the duplicating ink which we used to make up at Menlo. I have not at this writing received the same, and if you will again so far oblige me I shall be glad if you will let me have the recipe.

Very truly yours,

*Lab*

1883-10-05

October 5th.

3

Mademoiselle,

222 Madison Avenue, City.

Madam:-

If you have a vacancy in your school for a little girl ten years old, Mr. Edison would like to send his daughter as a day scholar.

He desires that she should take lunch with the family.

If you have a vacancy, will you please let me know at your early convenience what your terms would be and how soon you would desire Miss Edison to commence her studies?

Yours very truly,

Ed.  
P.S.

1883-10-05

October 5th, 1883.

Joseph S. Ferroll, Esq.

Southwark Foundry & Machine Co.

430 Washington Avenue,

Philadelphia, Penna.

Dear Sir:-

Your favor of the 3rd. inst. came to hand during the absence of Mr Edison and myself from town. I returned this morning but Mr Edison will not be back until next week.

I regret very much that you should feel compelled to write a letter in the spirit in which you have, and can assure you that the settlement of the matter would have been made ere this had not circumstances absolutely prevented Mr Edison from doing so.

Mr Edison has been away a very great deal lately and so have I, and it <sup>has</sup> so happened that we have seldom been here at the same time and have therefore been unable to discuss the matter of your outstanding claim and arrange ~~for~~ settlement.

At this writing it is impossible for us to <sup>Final</sup> make a settlement, but I can promise to send you to-morrow a note for \$2,000, and possibly \$300. more. The note will be that of the Edison Company for Isolated Lighting, with Mr Edison's endorsement, and I trust that you will take this as an earnest of our desire to make a settlement with you as early as possible.

I shall be glad if you will wire me in the morning sta-

1883-10-05

2.

Whether this will be satisfactory to you.

We have had the engine at Gresham Street ready for you to use for some time past, but so far nothing has been done there with relation to the experiment which you promised to make.

Will you please advise us with relation to this matter, and greatly oblige,

Very truly yours,

S. J.  
P. L.



1883-10-06

October 6th. 3

J. H. Welloy, Jr., Esq., Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I beg to acknowledge with thanks your favor of the 5th. inst. enclosing copy of the agreement between us duly executed, also your check for \$4,150.00, the same being ten per cent of the amount of our estimate.

Very truly yours,

1883-10-06

October 9th.

3

C. W. Rogers, Esq. Vice Pres.

Electric Railway Co. of The U.S.

211 1/2 Building, City.

Dear Sir:-

This will introduce to you Mr. E. A. Pratt of London,  
who is desirous of looking into the matter of electric railroads.

If you have the railway at Henle Park in operation and  
can arrange with him to see it, I shall esteem it a favor.

Very truly yours,

*J. A. L.*

1883-10-06

Middletown  
+ Mr. Schumaker

October 6th.

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

My canvasser, Mr. Dyer, writes me from Akron, Ohio, and says, Mr. Schumaker, the Prohibition Candidate for Governor of Ohio and the largest property owner in the City of Akron, was, when Mr. Dyer first met him, on the point of purchasing a 110 light Brush-Swan plant for his mill and office and intended to use a storage battery in connection with same. Mr. Dyer says that he has demonstrated to Mr. Schumaker the inefficiency of these batteries, and, furthermore, stated that you will find it advantageous to open communication with him (Schumaker) as early as possible.

Regarding the 300 light plant for Middletown for which I was to send you an estimate this week, my own engineer, Mr. Campbell is still confined to the house through illness. I have, however, had the estimate prepared and it is nearly completed and will be forwarded to you on Monday. You will no doubt understand from this that the delay was unavoidable.

Very truly yours,

1883-10-07

October 7th. 1883.

Southwark Foundry & Machine Co.,

430 Washington Avenue,

Phila. Penna.

Dear Sirs:-

I received your telegram yesterday, and have the pleasure to enclose you herewith note for \$2,000. of the Edison Company for isolated lighting endorsed by Mr. Edison, who has returned to the City this morning.

Please credit this to the account of the Edison Machine Works.

Very truly yours,

A handwritten signature, possibly "S. J.", in dark ink, located below the closing "Very truly yours,".

1883-10-07

October 7th. 3

W. F. Brewster, Esq.

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

In reference to a canvass of New Orleans, we beg to say that we would advise not making this at present. We think it would be desirable to wait until the St. Louis business is settled before going to the expense of making other canvasses in the South, as it is our desire to keep the expense down to the lowest possible figure and not make canvasses except when we are quite sure that money will come from them. If, however, Captain Hoffinger is willing to pay for this canvass of New Orleans, we will of course make it under his instructions, but otherwise we would prefer not making it for the present.

Very truly yours,

J. A. G.

1883-10-08

October 24th. 3

Western Electric Co.

62-64 New Church Street, City.

Dear Sir:-

Referring to your Order No. 087, under date of October 4th. and which we return herewith, we very much regret to state that we have not got on hand the carbons which you desire, and as we have broken up our laboratory we have discontinued making them.

Would it not be possible for you to make these yours? If we should much prefer you to deal with the matter in this manner.

Very truly yours,

*G. A. L.*

Enclosure.

1883-10-08

October 11th, 1883

John Kruesi, Esq.

48 Washington Street, N.Y.

Dear Sir:-

Referring to the attached telegram from the Treasurer  
of the Lawrence Company, does your bid for the additional under-  
ground conductors take in the extension Mr. Lord refers to?

Please let me have a reply by return.

Very truly yours,

SL

1883-10-08

October 8th.

3

"Secretary,"

Edison Electric Light Co., Limited,  
74 Coleman Street,  
London, E. C. England.

Dear Sir:-

We beg to acknowledge receipt of your letter of the  
25th. ult., signed by Mr. Claude Beckett covering orders Nos. 511 and  
512.

The reduction in prices for lamps was made subject to  
orders being given us for 10,000 lamps. The prices quoted to you  
were figured down as low as possible, provided lamps were ordered  
in the quantity named. It is quite impossible for us to vary  
the offer made to you in our favor of the 15th. ult., and unless  
you are prepared to order in accordance with that letter, the pri-  
ces must stand the same as those given to you. There is not suf-  
ficient margin in the manufacture of lamps to allow of any modi-  
fication, unless upon the quantities stated to you in ours of the  
15th.

We accordingly cabled you to-day that we could only fill  
the orders at the old prices, unless you were prepared to give us



1883-10-08

2

an order for 10,000.

Very truly yours,

*Talb*

1883-10-08

October 14th.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

Referring to your favor of the 14th. inst., we beg to say that it is not our intention to make any more detailed estimate for Newburgh, as we consider that the information given in our letter under date of October 4th. is all that you can possibly want in submitting the matter to the Newburgh Company.

In that letter we show the reductions which we will make in the street installation and electrical part of the estimate, providing you decide to cut off the mains and feeder as described therein, and a further estimate would simply be a duplicate of the one you have embodying the alterations mentioned in our letter of the 4th. inst..

We will send you by to-morrow's mail blue print and specification of the building which we propose to erect at Newburgh, and you will find the information which we give you on that is necessary for an outsider to have in order to bid for the erection of same.

The statement of profits will accompany them.

Very truly yours,



1883-10-08

October 8th.

Mrs. T. A. Edison,

City.

My Dear Mrs. Edison:-

Can I sell the gray pony and the children's wagon and brown harness for \$100.00? This is the best offer that I can get for it. Johnny tells me that the wagon is very much dilapidated and the pony is worth comparatively little.

Please give me an answer by bearer, as I want to reply to the offer to-day.

I will try to get around to see you this evening.

Very truly yours,

81

1883-10-08

October 8th.

3

W. B. Rich, Esq.

Caro Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I enclose you herewith two blue prints, one showing the foundations of the Fall River building and the other the general internal arrangement of the station. I also attach an office copy of our estimate, and would call your attention to the fact that the prices quoted are our selling prices.

We have placed our orders for the boilers, engines, dynamos and steam and exhaust piping, so that there will be no delay when you are ready to have us ship this material. We have also ordered foundation caps, bolts and washers.

Referring to the column for net cost, do you not think it would be a good idea for you to fill in opposite each item (the exact cost of which is only accessible to you) the actual amount expended in connection with same. I refer to foundations, boiler hearth, cost of hoisting & guying, stack, and you might also give the cost of the labor in connection with the hanging and direct of steam and exhaust piping etc. This would prove to be very valuable information to us and we shall be glad if you will fill these costs as accurately as possible.

Very truly yours,

ES

1883-10-08

October 8th. 3

C. E. Spiers, Esq.

232 Murray Street, City.

Dear Sir:-

Mr Edison wants to see you to-morrow (Tuesday) at  
twelve o'clock sharp.

Very truly yours,



1883-10-09

October 9th.

3

O. A. Moorand, Esq.

Kristiansund, Norway.

Dear Sir:-

Referring to your favor of October 8th., I beg to inform you that the instrument you refer to for the assistance of deaf people was never perfected, owing to my having to give my attention to other matters. I hope, however, at some future day to take it up and deal with it again, but at this writing cannot say when it will be.

With relation to electric lighting, I think the best thing you can do is to write to Mr. Bailoy, who will doubtless communicate with you and give you the information.

Very truly yours,



1883-10-09

October 9th.

3

A. E. Kissell, Esq.

Knoxville, Tenn.

Dear Sir:-

Your favor of the 3rd. inst. came to hand during my absence from town.

In reply, I beg to state that the only way that we would make an estimate is to have a regular canvass of the town made, and on the data thus obtained make our tender in the regular manner.

There would be no necessity to have an electrician to run the station. One engineer and one motorman is quite sufficient. Sanbury with 500 lights, Shamokin with 1000 and Brockton with 1000 are run by two men, the motorman helping the engineer from 5 P.M. until 10 P.M., after which hour the main load is nearly off, the engineer runs the balance of the night and the motorman comes on at 10 in the morning, attends to the motorwork, bookkeeping, collects bills and turns the money over to the Treasurer of the Company. The inside wiring is done by a local plumber, who is taught the work by our experts when we send on. It is a very bad policy to have the local company do any of the inside wirework, as if they do the consumers will pay off the light against their wire bill.

1883-10-09

2

If you will write Major Eaton that the prospects are good for organizing a company he will order us to make a canvass, and we will push through the work as quickly as possible.

If they require us to do the work, we are willing to take a contract, providing they leave the whole of it to us. We are not, however, prepared to let them do part of it and take a contract for the remainder. Our experience with this method of procedure at Shumokin compels us to take this course, as it ends in increasing the expense and causes great delay, and gives neither satisfaction to the local company nor to ourselves.

Very truly yours,

*Jaeger*



1883-10-09

October 9th. 1883.

Gustav Seldan, Esq. Supt.

104 George Street, City.

Dear Sir:-

I beg to give you below an extract from a letter which  
Mr. Edison has received from Mr. Ketchum:-

" 140 light machine. I have just altered an I to give  
140 jumps quite easy and it works very well indeed.

Armature:- wound like a B

18 wires No. 18 each coil.

resistance 0.030 ohms.

Each core wound with 103 lbs. No. 18 wire, paper  
on core but after the bottom layer no paper.

The wire passes through a hot solution of para-  
fin and resin on the lathe during winding.

Test, 1,200 turns

140 Amperes.

110 Volts.

F Dynamo. I have altered all the F dynamos, we had  
commenced to give 1000 turns instead of 2400 which is a speed  
which gives no satisfaction in the hands of the public.

Armature:- Instead of 2 wires 11 turns around I make 2  
wires 12 turns around, this makes the armature more resistance but  
then we can easily sell them at that."

Yours truly,



1883-10-09

October 9th.

3

J. W. Sorrell, Esq.

140 Nassau Street, City.

Dear Sir:-

I do not think there is any necessity to take an appeal  
in the first count of the Nicholson case.

Very truly yours,

*W. A. G.*

1883-10-09

October 9th.

George W. Wilbur, Esq.

care W. J. Jenks,

Brockton, Mass.

Dear Sir:-

Please advise me as early as possible how soon you will be through canvassing Brockton. I would very much like to start canvassing Auburn, N.Y. early next week. If you can go there earlier, so much the better.

Yours truly,

1883-10-09

October 9th.

3

J. H. Denty, Esq.

Shreekin, Penna.

Dear Sir:-

My private secretary, Mr Insull, will be in Shreekin either Wednesday or Thursday, in order to arrange with you for the settlement of my account for the installation of the central station at Shreekin.

Very truly yours,

*G. A. G.*

(883-10-09-)

October 9th. 8-

Frank S. Marr, Esq. Treas.

Edison Electric Illuminating Co.

Sanbury, Penna.

Dear Sir:-

Referring to your favor of the 3rd, October enclosing paragraph from the "Public Ledger", I beg to inform you that there was no fire, except in a service pipe four feet underground and where there was no safety catch. No fire can or has ever happened in our district, and we have reduced the average fires thirty five per cent. within the area we are now lighting.

Very truly yours,

*J. L. G.*

1883-10-09

October 9th.

3

Monsrs. Harpman & Co.

303 Avenue, N, City.

Dear Sirs:-

I enclose you herewith a two months note for \$2,34.03 in settlement of our laboratory account. My books agree exactly with yours on this account, so this clears us off until October 1st

I also enclose you a three months note for \$2,390.03.

I make this amount up as follows:-

\$1,410.43 amount due your Wiring Department by our Construction Department, according to our books and \$730.50 amount due your firm by our Construction Department, also according to our books. This leaves a difference of \$816.01 due to you according to your books, and which we do not appear at this writing to have on our books. Mr Tate will communicate with you during the week with a view to straightening the matter out, when we will endeavor to hand you a check for the balance.

I also enclose you a check for \$3,035.00, on account of your account against the Edison Electric Light Company. You should send some one up to sign a voucher for this.

Will you please send me a check for \$1,400., in return for the check which I gave you on Saturday. I will deposit that check to-day, with the one I now have here for \$600., into this

1883-10-09

2

afternoon, so they will not get into your bank until to-morrow.

Very truly yours,

A handwritten signature, possibly reading 'S. J.', in dark ink.

Enclosure.

1883-10-69

October 9th.

3

A. M. Beach, Esq.

211 Broadway, City.

Dear Sir:-

Referring to yours of the 11th. inst., I will find out from the writer of the article whether he would like his name published. My impression is that he would prefer to assume a nom de plume.

Very truly yours,

*Yale*

*Yale*



1883-10-09

New York, October 5th. 1883.

Messrs. G. E. Gouraud, Joshua Franklin Bailey & Theodore Puskas,

Dear Sirs:-

The undersigned acting for and by authority of the Edison Telephone Company of Europe, Limited, and also for himself individually as co-vendor under the agreement dated 10th. November, 1881, between T. A. Edison, The Edison Telephone Company of Europe, Limited and others, and the Edison-Gower-Hell Telephone Company of Europe, Limited, you are hereby authorized and directed to transfer the 175,000 shares of the Edison-Gower-Hell Telephone Company of Europe, Limited, notwithstanding in your name, into the names and to the amounts as follows, viz:-

- |   |               |
|---|---------------|
| 1. The Edison Telephone Co. of Europe, Limited..... | 125,000       |
| 2. Thomas Alva Edison.....                          | 44,750        |
| 3. George Edward Gouraud.....                       | 61,250        |
| 4. Theodore Puskas.....                             | 4,500         |
| 5. Joshua Franklin Bailey.....                      | 18,300        |
|   | <hr/> 175,000 |

Witness.

The Edison Telephone Company of Europe, Ltd.

President.

Witness.

1883-10-10

October 10th.

Gustav Saldan, Esq. Capt.

104 Gorek Street, City.

Dear Sir:-

Here is an extract from our masterman at Shamokin,

Mr. Conant:-

"I have fitted to one of the dynamos a couple of straps by which the brushes may be raised from the commutator when shutting down. The arrangement is as in the following sketch.

All that is necessary is to pull the strap and catch the ring over the hook. Above the ring is placed a buckle to allow of adjusting the lift. At the end of each strap is a small stick which is caught under the brushes (as shown at W. 1.)

The rollers are screwed to the wooden base of the dynamo. There is enough slack to allow of shifting the brushes when necessary during a run. The arrangement works easily and the entire cost is about \$5.00. What do you think of the idea?"

Yours &c  
T. A. L.

1883-10-10

October 10th. 3

Messrs. Bergmann & Co.

202 Avenue U, City.

Dear Sirs:-

I beg to give you below extract from a letter received by Mr. Edison from our meterman, Mr. Copant, who is now at Shamokin:-

"The copper wires on the 3 light plates, as you know, are extra long to allow for the small plate. This is all right, but Bergmann has sent me a lot of 13 light mazex plates which for some reason are fitted with 3 light copper wires, so that to get them into the meter they must be cut down, and we cannot waste time in sending these back but this should not happen again. The 33 light coppers also you remember are too short."

Very truly yours,



4

1883-10-10

October 10th.

3

Messrs. Stigman & Mc.arty,

Brownsville, Texas.

Dear Sirs:-

Replying to your favor of the 27th. September, we beg to say that at Sunbury, Penna. we have installed a 500 Edison Electric Light Plant, the cost of which, with building and everything put up complete, was \$14,500.; at Shamokin, Penna. we have a 1000 light plant, the cost of same complete being \$30,000; and we have also a 1000 light plant at Brockton, which was installed at a cost of \$31,000. All these plants are working perfectly, and consumers of the light say that they are thoroughly satisfied with it and would not on any account use gas when they can obtain our light.

We would suggest your sending maps of both the towns mentioned in your letter, and if possible stop the operations of the arc light people.

Very truly yours,

L. A. G.

1883-10-10

October 10th, 8

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I am in receipt of your telegram of last night stating that the refilling of the trenches is unsatisfactory. I also received another telegram and letter from you this morning in reference to the extension of your system on both sides of Essex Street.

I have referred this and the matter of the unsatisfactory refilling of the trenches to the Electric Tube Company, who will instruct their foreman at Lawrence to have this work properly done.

The three 100 light meters which you ask for will be sent at once.

Very truly yours,

*Tale*

1883-10-10

October 10th. 3

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I send you herewith Maps of Middletown, Ohio and

Norwich, Conn. for determination.

~~These are not, but, I think,~~

*Norwich is Underground - Middletown is on the line.*

Kindly let me have these as soon as possible, and oblige,

Yours truly,

*Tak*

1883-10-19

October 10th. 3

Messrs. Hermann & Co.

302 Avenue B, City.

Dear Sirs:-

Referring to your invoice of October 8th. for one main  
ampere indicator for Shenokin, which appears to have been ordered  
by Mr. Andrews, we wish in future that you would not accept orders  
for material on account of the Construction Department unless they  
are issued from this office, as it causes great confusion and we  
never know what material is being supplied for our stations.

Very truly yours,

Toby

1883-10-10

October 10th. 8

W. S. Andrews, Esq.

care W. J. Jenks, Manager,

Brockton, Mass.

Dear Sir:-

I am in receipt this morning of two invoices from Messrs. Hermann & Co., each for an ampero indicator forwarded to Shamokin, one of which has been supplied by an order from this office and the other by verbal order from yourself.

We do not understand what use you can have at Shamokin for two ampero indicators.

In future when you require material <sup>*we would much*</sup> prefer you to place your orders through the medium of this office, as it is impossible for us to keep track of our business unless we know exactly what is going on.

Very truly yours,

*W. S. Andrews*



1883-10-10

*Electric Tube*

October 10th. 3

Electric Tube Co.

44 Washington Street, City.

Dear Sirs:-

I am this morning in receipt of a letter from the Treasurer of the Lawrence Company stating that their system must be extended on both sides of Essex Street.

A few days ago I referred a telegram in reference to this extension, in reply to which you stated that your bid for additional underground conductors required at Lawrence covered this extension. I received another telegram last night from Mr. Lord stating that the refilling of the trenches was unsatisfactory, and that your foreman would not repair the damage. We shall be glad if you will give both these matters your immediate attention, and ascertain what has given rise to the complaint which Mr. Lord makes, and have the matter adjusted as quickly as possible.

Very truly yours,

*S. A. J.*

1883-10-10

October 10th, 1883

W. M. Dwelley, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

In reply to your favor of the 4th. inst., we beg to say that everything at Fall River will go ahead with all possible despatch, and Mr. Rich will be there in good time.

Mr. Edison is at the moment working out his scheme for wiring, and we would suggest strongly the advisability of your not making any promises to the public about wiring or prices of the light, otherwise it will severely interfere with Mr. Edison's arrangements, as it did at Deducton, where all the wiring must be done over and where they started too low on the price of the light, and installed far more light than parties required, thus running up their bills unnecessarily. You can rest assured that work will be proceeded with to your entire satisfaction, and that no time will be lost by us.

Very truly yours,



1883-10-11

October 11th, 1883

A. A. Cowles, Esq. Supt.

Ansonia Brass & Copper Co.

19 Cliff Street, City.

Dear Sir:-

I beg to enclose you herewith copy of my Power of Attorney from Mr Edison, as promised.

Very truly yours,

1883-10-12

October 13th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

At Lawrence it is proposed to put ~~two~~ light machines to take the place of the one 600 light spare machine, and this will require a different regulator to what we have been putting in in stations already started.

We have got to provide for running, first, the two regular machines, second, for one of the spare machines on either side, third, for one of the spare machines on each side, fourth, for both of the spare machines on one side or the other side, as the case may be. Now is your switch going to take care of this, and how are the regulators going to be arranged to take care of it?

Will you please study up this matter and let us have your ideas as early as possible, and in doing so please remember that an "H" regulator costs us \$30., and that we want to keep the expense of the regulation down as low as possible, compatible with its completeness. Of course you may think of some other points that we have to take care of besides the above enumerated, if so, allow for it.

Very truly yours,

S. J. A.

1883-10-12

October 13th,

3

George S. Ladd, Esq.

222 Sansome Street,

San Francisco, Cal.

~~Dear Sir:-~~

I am obliged to you for your favor of the 3rd. inst., and must thank you for the trouble you have taken with relation to our light for Mexico. It is, however, a matter with which I am personally unable to deal, as Mexico is controlled by the Edison Electric Light Company, who I think have a contract with some one in the city of Mexico.

I have referred your letter to Major Eaton, and he will doubtless communicate with you giving you detailed information on the subject.

With kind regards, I remain,

Very truly yours,

Jal  
\$7

1883-10-12

October 12th. 3

Paul W. Dyer, Esq.

Post Office,

Kansas City, Mo.

Dear Sir:-

I telegraphed you to Synthiana, Ky. requesting you to canvass Kansas City.

Mr. William F. Brewster, the special agent of the Edison Electric Light Co., desires you to see Mr. W. H. Winants, Cashier, Armour Brothers Banking Co.

It is proposed to put a plant in Kansas City of 4000 lights, so you will have to take in as large an area as possible.

I know it is quite unnecessary to urge you to hurry through the canvass, but I may as well state that we are waiting to get out the estimates and of course can do nothing until we get the canvass from you.

Very truly yours,



1883-10-12

October 13th, 1883

Messrs. Brower & Jensen,

33, Chancery Lane,

London, W. C. England.

Dear Sirs:-

Referring to your notice as to Patent 4,379 of 1880,

I beg to inform you that I do not propose paying the fee, and the Patent will therefore have to lapse.

Very truly, yours,

*John*

1883-10-12

October 12th.

3

William W. Brewster, Esq.

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

I have your favor of the 6th. inst.

I have ordered Mr Paul O. Dyer to Kansas City to make a canvass of the town. He was in Wyndham, Ky. yesterday, and I presume will be in Kansas City in the course of a few days. I also wired you last night asking you to send him introductions to the right parties in Kansas City. I trust that you have done this.

We have instructions from Major Eaton with relation to the canvass of New Orleans. Immediately Mr Dyer is through at Kansas City, it would be well for him to go to New Orleans, but I would suggest that you write Major Eaton on the subject. I have myself sent a memorandum down to Major Eaton about this matter.

Very truly yours,

Gal  
7



1883-10-12

October 14th. 3

W. H. Cooke, Esq.

Osborne House,

Auburn, NY.

Dear Sir:-

I was away at the time you started for Auburn, and therefore had not an opportunity of speaking to you.

Mr Edison is very much dissatisfied indeed with several of your canvasses which show a great many mistakes. Appleton is a special case on which he has based his remarks. I have been over Mendota canvass with a gentleman from that place, and he also claims that it is very incorrect, and I notice in several places that you omit entirely the alleys and your ~~arrangement~~ of lights in many cases are very defective.

I write to warn you about this matter, and trust that the Auburn canvass will be a complete one.

Very truly yours,



1883-10-12

October 12th. 3

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,  
Boston, Mass.

Dear Sir:-

We wired you last night requesting you to communicate  
with Mr. C. H. Cooke, Osborne House, Auburn, whom we have sent there  
to canvass the town.

We are anxious that he should get from you the names of  
local parties for him to call on with relation to the canvass, and  
therefore trust that you have written to him on this subject.

Very truly yours,

*Tak*  
7

1883-10-12

October-12th.

3

O. J. Smith, Esq. Prost.

Americal Press Association,

39 & 41 Park Place, City.

Dear Sir:-

Referring to your letter of the 10th. inst., Mr Edison, who left town last night, requested me to inform you that he is so very busy that it is quite impossible for him to write the articles you refer to. He will be out of town the most of the time between now and November 1st., but after that date if you care to interview him, and so get at the data to write up articles on the subject you refer to, he will be very glad to give you the necessary time for the purpose, what I mean is for one of your representatives to get from Mr Edison exactly his views and then write them up himself.

Very truly yours,

Sdy  
O. S.

1883-10-12

October 12th. 3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I have your memorandum as to case No. 62.

I will look into the matter further and write you again in the course of a few days.

I hasten, however, to reply to your remarks on our meter.

We have been running since the 4th. July at Sanbury, at Shamokin for the last month and at Brockton for the last three weeks and down town since the early part of the year, and in all these places our meter has given very great satisfaction to the consumers. At Sanbury, where in all probability our customers have fewer lights in their houses than in any other place, the consumers in several instances have kept an exact record of the lamp hours, and the bill has tallied so closely with what they reckoned it ought to be from calculating by their lamp hours, that it has really surprised me, as the variation has not been more than two per cent in any case, and in a number of cases the meter and lamp hours have tallied within the smallest possible fraction. We dispense now with the quarterly bottle, and use one

1883-10-12

3

bottle as a check on the other, calculating the loss on the plate in each bottle and taking the mean.

I will get from Mr. Chinnoch some copies of his meter accounts and send them to you to substantiate what I say.

In fact I am so very much pleased with our meters that I would not for an instant think of using the recording meter, as the advantages of its being automatic would in no wise compensate for the difference in correctness as compared with our present form of meter.

Very truly yours,

*John*

*J*

1883-10-12

October 13th.

3

Messrs. Alden & Sterne,  
City.

Dear Sirs:-

I enclose you herewith letter from Homer Norman.

We are very anxious to let Bramorey Park indeed. Do  
not you think it would be a good idea to put up a notice that the  
house is to let?

Yours truly,

Gal  
7

1883-10-12

October 13th,

C. E. Chinnock, Esq.,

257 Pearl Street, City.

My Dear Chinnock:-

We have a letter from Europe "kicking" against the use of our meter, and we have written saying that if a check is kept on the meter by keeping an exact account of the lamp hours the correctness of our meter would be established.

Will you please write me a letter officially giving your experience with the meter and accompanying it with a few specimens of your meter records, which gives the name of the consumer, the loss on each plate and the amount of the account, also mentioning on what standing the calculations are made. What I want to do is to "lay out" these Europeans who "kick" against our meter, and want us to adopt a recording meter which would never be such a success as our present meter records.

Very truly yours,

A handwritten signature, possibly "S. J.", is written in dark ink. The signature is stylized, with a large initial 'S' and a smaller 'J' or similar character below it.

1883-10-12

October 13th,

3

Thomas P. Conant, Esq.

Weavers National Hotel;

Shamokin, Penna.

Dear Sir:-

Your letter asking for a check for salary came to hand while I was in Williamsport.

I have the pleasure to enclose you herewith check for \$ , being the amount of your <sup>pay</sup> ~~salary~~ for the months of August and September. (*This square your a/c up to Oct 1<sup>st</sup>*)

I shall leave New York for Shamokin Sunday night, and shall hope to have the pleasure of seeing you Monday morning.

If you should happen to find a piece of steak not more than ordinarily tough, you might save me half of it, as leather flavored with the essence of beefsteak is certainly indigestible, to say nothing about its being unpalatable.

Very truly yours,

*SS*  
*7*



1883-0-12

October 18th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I am in receipt of yours of the 11th, inst.

I cannot possibly order Conant from Shenackin at present. Cannot you borrow from Mr Rich some of his men to help you and so push your work through rapidly? I am anxious that Lawrence station should be started as early as possible, as we have quite a heavy payment dependent upon the current being put on the mains.

Very truly yours,

*AS*  
*7*

1883-10-12

October 12th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to remind you that up to this writing we have never received any detailed report as to the progress of the business in Brockton. We are frequently called upon by the Officers of the Electric Light Company for information, and we are absolutely unable to give it in consequence of our not hearing from you. Will you please, for the future, report at least twice a week to this office, irrespective of whether Mr. Edison or the writer should happen to be in any town where you may have charge of the electrical work. When we tell people that we are unable to give them information, they are inclined to think that we do not ~~know~~ <sup>want</sup> to give them the information, and our position is therefore a very awkward one if you do not keep us posted.

Very truly yours,

S. Insull  
P. Sec.

1883-10-12

October 13th. 3

M. Ward Leonard, Esq.

care W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

I have your letter of the 11th. inst., and enclose  
you check for <sup>25</sup>~~22~~ as requested.

When you were here I asked you to report to this office  
exactly the course your business takes in Brockton. You should  
send us at least twice a week a statement showing the number of  
meters installed, in whose house they are installed, on which  
side the of the circuit the lights are and the number of lights  
each consumers is wired for, also any other information of interest  
in relation to the meter business. I trust that we shall not  
have to ask for this again, as I can assure you it is very annoying  
not to have the information here, as we are frequently called upon  
to give such information and it places us in a very awkward posi-  
tion in not being able to tell people, who have a right to know,  
how our business is running.

Very truly yours,

*S. J. Smith*  
*W. J. Jenks*

1883-10-12

October 12th. 3

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,  
Boston, Mass.

Dear Sir:-

I have your letter of the 11th. inst.

The reason the bills have been unpaid in Brockton is that it was impossible for us to deal with ~~them~~ until getting Mr. Rich's approval of same. This approval came to hand during my absence from town. I returned this morning and will pay them all up immediately they can be passed through our books, which will be I presume either to-morrow or Monday.

Very truly yours,

*Fal*  
*y*

1883-10-12

October 12th, 3

W. R. Dooty, Esq.

Shamokin, Penna.

Dear Sir:-

I found your telegram here when I returned from Williamsport.

I shall be in Shamokin Monday morning, and shall hope that things will be in shape by that time.

I have just got the first small delivery of the new cable. Will you please wire me in the morning the quantities and sizes required by Floyd of this material. If he ~~can~~ calculates on single wire, I will know how much double wire to ship.

Very truly yours,



1883-10-15

October 15th.

3

F. R. Upton, Esq.

East Newark, N. J.

Dear Sir:-

Referring to your favor of the 13th. inst., I have thought over your proposition as to English orders, and I am strongly of the opinion that we should not give way to them on the question of prices, as if we do we will be compelled to take the same course all through, and they are such desirable customers that we need trouble ourselves about bidding very closely for their trade.

Very truly yours,

*Jul*  
*7*

1883-10-15

October 15th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

Referring to your letter of the 11th. inst. to Mr Edison  
he says that he thinks that you can figure on what the Shamokin  
people require for their Opera House yourself. If so, will you  
please get up a sketch of the regulator and send it on, and we will  
have Bergmann estimate on it.

Very truly yours,



1883-10-15

October 15th.

3

Gardner C. Sims, Esq.

Providence, R. I.

My Dear Sims:-

The speed indicator which we use in the central station is made by T. R. Harding & Son, Tenter Works, Luddes, England but they have agents some where in Boston. I do not, however, know the agents address, and we do not appear to have any spare indicators on hand. I should think some of your Boston friends could probably assist you towards getting one.

Very truly yours,

S.S.  
7



1883-10-75

October 13th. 8

W. S. Andrews, Esq.

Franklin House,  
Lawrence, Mass.

Dear Sir:-

Referring to your letter of the 11st. inst., to Mr. Edison, as far as I understand there are three ampere meters at Shamokin, whereas our contract only calls for one, and my impression is that we shall have to stand the loss of the other two. One ampere meter would have been sufficient, I presume, for them to get along with, although of course it is desirable to have two and much better to have three. My idea was to let the matter run on until we had settled our contract, and then if they wanted more than one they could order it. I cannot find any record in my office of having ordered more than one ampere meter from Bergmann. When I complained to him that three were sent, he says I must <sup>sent</sup> blame you, as they were at your request. Chamberlin knows nothing about what ampere meters should go to one place or another. I know your inclination is to communicate with us in all matters before doing anything, but what I want to get at is, in this special case, whether it is Bergmann's "bull" or your instructions, or some remarks of Mr. Edison to Chamberlin, which caused three ampere meters to go to Shamokin, which is a loss to us of about \$40.

*S. J. v.*

1883-10-15

When he gets there.

October 15th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 11th. to Mr. Edison, we have talked the matter over of the Lawrence central station and have come to the conclusion that the best thing to do is to give you Carte Blanche to let you make such arrangements as you see fit. Will you please do it on as economical a basis as possible.

I think Mr. Edison will be in Brockton some time towards the end of the week, probably about Wednesday or Thursday, and he will have a pressure indicator with him, which is just the "boss". When he gets there you want to go over and see it work. We propose taking out all the old pressure indicators and putting in these new ones.

Very truly yours,



1883-10-15

October 13th.

"Secretary",

Edison Electric Light Co., Limited,  
London, E. C., England.

Dear Sir:-

Referring to your Assistant Manager's letter of the 2nd. October, I beg to inform you that order No. 534 will be shipped by the Assyrian Monarch on the 14th. The engine has been in New York some days, but there is no steamer sailing earlier. Your order also for an 8<sup>1</sup>/<sub>2</sub> x 10 engine will be shipped at the same time. I may mention that our engine builders have so many orders ahead, and we ourselves have to order quite a large stock of engines in order to meet the demands against us in this country, that it is very difficult to send you an engine off-hand. If you are not prepared to carry a stock of engines you should order them well in advance, as otherwise we will have great difficulty in getting them for you by the time you require them.

Very truly yours,

*J. A. G.*

1883-10-15

October, 15th. 3

W. H. Doolley, Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Referring to your favor of October 10th. to Major Eaton in relation to the installation of your plant at Fall River, I would state that we are pushing everything in order to have the plant installed at the time stated, namely, the end of November. You must really leave it to us as to whether we shall commence any particular part of the work. We do not dare to send men to Fall River to make a show there, and get some part of our work through a month before the other. This we cannot afford to do. Everything so far is going on very well, with the exception of the tubes, and I am inclined to think that your not writing to me guaranteeing the tubes, so as to enable us to order them, may cause us some delay. So far we have had to make considerable sacrifices in order to get promises or deliveries of tubes at all. I fancy, however, that Mr. Rich has been to Fall River since you wrote, and is preparing to start his portion of the work, which I can assure you is the quickest done, and, consequently, should be really the last commenced. If you will please have a little patience and not think that we are doing nothing, simply because you

1883-10-15

do not see a whole army of men in Fall River, I think you will  
find the thing will come out all right..

Very truly yours,

Fal  
7

1883-10-15

October 15th, 1883

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Your telegram of the 12th. came duly to hand.

We have not a very high idea of Johnson's qualifications, and have been endeavoring to get a man more suited to our work, but we have not at this writing been able to get the man that we want, and until we do get one it is quite impossible to recall Johnson. Meantime we would like to ~~know~~ from you some further information as to the trouble with him you complain of.

Very truly yours,

Jab  
J

1883-10-15

October 15th. 1883

John W. Lieb Jr., Esq.

via Manzoni, 12 A,  
Milano, Italia.

Dear Sir:-

Referring to your favor of the 27th. September, I regret to say that I cannot send you the rigging you ask for unless I get an official order for same.

With relation to the valve motion attached to the Armstrong & Sims engine, which you say is broken, I can give no explanation, except that the trouble must have occurred after the engine left here, as before we shipped it it was thoroughly tested.

Very truly yours,

*Jal*  
7

1883-10-15

October 15th.

3

W. A. Stern, Esq.

830 North 5th. St., Phila. Pa.

My dear Mr. Stern:-

Your two postals of the 14th. inst. just to hand.

We are having the library removed from Mr. Edison's house to this office, and as soon as the books are in order I will look up "Gordon's Electricity and Magnetism" and send it to you.

I am sorry to hear that you have been eight weeks in bed suffering from such an accumulation of troubles, but it is a great relief for me to know that such troubles are of a legitimate instead of an illegitimate nature.

Hoping that you will soon be well, believe me,

Very sincerely yours,



P.S. Owing to my having to go out town, this letter will have to be signed by my assistant, as I dictated it on Sunday, and it will be written on Monday.



1883-10-16

October 15th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Dear Sir:-

I have your favor of the 10th, inst.

I do not care to stand the expense of your sending a man to start your engines in our stations. I think that you should supply us with an engine which we can start ourselves, we such men as we have.

Very truly yours,

*G. C. Sims*  
*P.S.*

1883-10-16

October 16th. 3

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to acknowledge with thanks your voluminous letter of the 16th. inst.

At the moment we will only deal with one or two points.

I have received your telegram asking us to recall Johnson, and this morning wired you to have him return to New York at once. I told you, if you have the money, to give him \$30., and if you had not to draw on me at one day's sight for that amount and to take Johnson's receipt for it. We are very much surprised and disappointed in this man.

In relation to pressure indicators there have been vast improvements made in these within the past few days, and the difficulty you have met with will be entirely overcome when the new indicators are placed in service. Mr. Edison will go on to Brockton to-morrow or the next day and will have one of these with him.

At the moment I have no time to deal fully with your letter but will do so this evening or to-morrow.

Very truly yours,



1883-10-16

October 10th. 3

Thomas P. Conant, Esq.

Weavers National Hotel,

Shanokin, Ponna.

Dear Sir:-

I fancy that I have left my bunch of keys in room 10.

Weavers National Hotel:

Will you please enquire as to whether a bunch of keys  
were found in that room, as I am absolutely keyless.

Very truly yours,

S. J.  
H.

1883-10-16

October 13th. 8

H Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brookton, Mass.

Dear Sir:-

Mr. Sprague informs me that one 60 light meter complete and one 40 light meter were shipped to Borgmann & Co's on the 12th. from Brookton, and says that it is your intention to write Messrs. Borgmann & Co. on the subject.

In relation to defective material, we particularly desire that all your correspondence shall come to this office, inasmuch as we order the material and there should be no communication between the parties receiving it and the parties from whom we order it, as we expect those who receive material to consider it as coming from us.

I trust that any complaints you have to make about this matter you will send to us at the earliest possible moment, and enable us to have the matter corrected.

Very truly yours,

*W. L.*

1883-10-16

October 16th. 8

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 13th. inst. in reference to lengthening the boiler room of the Fall River station, and in reply we have to say that if you will build a manhole door for cleaning purposes at the point X shown in the attached sketch, both boilers can be entered from flues. This arrangement should be effected for the first pair of boilers installed, and the same arrangement will be necessary for other installations in the future. You could also obviate the difficulty by having the doors on the top of the flues, as shown on several prints, so that with either of these arrangements no alterations need be made in the building or piping.

We are going to order forward at once all the material for Fall River, and trust that you have made the necessary arrangements for receiving and storing it until such times as it may be required to be used.

Very truly yours,

*SL*  
7

1883-10-16

October 16th.

3

Ball Engine Co.

Bres., Penna.

Dear Sirs:-

We beg to acknowledge receipt of your favor of the 12th inst. in reference to your automatic cut-off engines.

In reply we would say that it would be necessary for us to make a long test of an <sup>1</sup>8' x 10' or one that size at our Works, 104 Goerck Street, New York, before we could think of negotiating with you in relation to the use of your engines for electric lighting purposes.

Very truly yours,

*246*  
*9*

1883-10-17

October 17th.

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I have your letter of the 14th. inst., and in reply beg to state that Mr Edison insists that the regulation of the 400 light machines must be taken care of in the same method that we now take care of the spare 600 light machines. Now this is to be done I do not know. Mr Johnson suggested an arrangement of switches to be interposed in the line between the resistance boxes and the field and then you could plug in either one of the small machines or both of them on one side or one on each side. You figure on this, and let us hear from you further about it, as it is hardly a matter which I have the ability to discuss in correspondence.

Borgmann has been getting up a new regulator something like the regulators used at the central station. My impression is that we will put this in our central stations in the place of the regulators already sent out.

I do not know when you will get the new pressure indicators. Can you get along with the old form of indicators? If so, I can send these to you at any time. We intend to send out

1883-10-17

2

the new pressure indicators, which Mr. Edison has been getting up, since you left, and which has been working like a charm, but this will not be ready for some time, and of course the stations cannot be kept waiting in consequence thereof.

I will let you know concerning the plug reader switches and safety catches. The first dozen had a backboard, in fact those sent to Lawrence had a backboard originally, but they were taken off the board at the request of Mr. Sprague, who considered the board useless. I must say that I agree with you as to the advantage of having the backboard.

I have written to Sulgan about what you say as to dynamos. I do not know exactly when you will get the 400 light machines, may be a week or two.

Mr. Lord has written asking for a motorman. Cannot you deal with the matter until Conant is able to leave Shamokin? I would much prefer that you should do this, as we have no man to send you anyway, and I know you would like to have Conant with you, so I would like you to get along until he can go to Lawrence. He was "all broke up" at my telling him he would have to stay a week or two longer in Shamokin, when I was there the other day.

Very truly yours,





1883-10-17

October 17th, 1883.

A. A. Cowles, Esq. Secy.

19 Cliff Street, City.

Dear Sir:-

I have recently received a number of complaints from the Machine Works about errors in the delivery of wire and copper rods. Such errors necessitate the return of the material, and, consequently, a very great delay to us at the Machine Works.

I write to draw your attention to the matter, thinking that it is probable that you may not be aware of same.

Mr. Seldan, our Superintendent, told me this morning that he would call to see you in the course of the day about it.

Very truly yours,



1883-10-17

October 17th.

Paul D. Byer, Esq.

Kansas City, Mo.

Dear Sir:-

We have your letter of the 11th. inst, dated from  
Cynthiana, the canvass of which place arrived here on the 13th.  
inst.

I wired you on the 13th. to go to Maysville and make a  
canvass of that town after you had finished Kansas City. Mr  
Stuart is very anxious to have Maysville canvassed without delay,  
and I therefore wish you would use all possible despatch in getting  
through the town you are now in.

Very truly yours,



1283-10-17

October 17th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We are this morning in receipt of your favor of the 15th. inst., and in reply beg to say that we have instructed Mr. Dyer to return to Maysville and make a canvass of that town after he has finished Kansas City.

We note with much satisfaction your statements as to the organization of the Tiffin Company and the prospects of closing a contract with them.

Under separate cover we send you the estimate for a 1000 light plant for Tiffin with street installation to cover 1700 lights. In our telegram of the 12th. we explained to you that the building which we proposed erecting was to be of brick with stone foundation, and the cost of same \$4,000. If you prefer a frame building, we will erect one suitable for the purpose for \$1,400., but inasmuch as there is not a very great difference between the price of the frame building and the brick building, we beg to suggest the advisability of erecting the latter.

In relation to temporary fixtures, if you do not wish us to supply these you can cut the amount (\$124.03) out of our estimate, and make arrangement to put in permanent fixtures from the

1883-10-17

2

start.

In relation to other estimates, we hope to send you before the end of the week Middletown and Piqua, each a 300 light plant, as you requested.

Trusting that our Tiffin estimate will be found satisfactory, we remain,

Very truly yours,

*T. A. J.*

P.S. We presume you understand that our bid for the street installation only holds good providing the necessary grants and concessions for the erection of our poles and running of our wires, in accordance with the red lines shown on the map sent herewith and marked Exhibit "A", are obtained by the local company. Should they fail to obtain any of these and thereby put us to any additional expense, from having to change the course of the pole line system, it is understood and agreed that they shall reimburse us for the expense.

1883-10-17

October 17th.

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Your letter of the 14th., containing resolution passed by the Hollifonte Company, and letter from Mr Harris, secretary of the same Company, and your telegram of this morning have all been received, and in reply to let us say that we will have a canvasser at Hazleton to-morrow or the next day, and after he finishes up there he can go to St. Catharines.

If we close a contract with the Hazleton company before the 1st. November, we will undertake to put the plant in and have it running before Christmas. A canvass of the town should occupy about four days, and a week after its receipt in this office we could have the maps prepared and the estimate turned out. Just here we wish to remark, that we are really surprised that the breadth of the Hollifonte Company was taken away by our estimate. For a plant of that size, (\$1,000.) we considered the estimate very fair. We will, however, comply with their request and send them an estimate for a 500 light plant at the earliest possible moment.

Very truly yours,

SJ

1883-10-17

October 17th, 1883

Cassidy Solcan, Esq. Supt.

104 Cochrane Street, City.

Dear Sir:-

Mr W. S. Andrews writes me as follows from Lawrence:-

"Concerning the 'H' dynamo, the small square headed bolts used in clamping the connections on the head board should be stouter. I found two of them badly bent here, and I broke one at Shamokin. When I was in New York I provided myself with two spare ones, or I should have been obliged to have had some made here. The two stop pins in groove of rocking arm are useless and in the way, I have had them chipped ~~off~~ every-case."

I thought you might like to have the above remarks from Mr Andrews, as he is probably one of the best posted men we have at the present time.

Yours truly,



1883-10-17

*Electric Pen*

October 17th.

3

John F. Rogers, Esq.

102 India Square,

Boston, Mass.

Dear Sir:-

We have your favor of the 15th. inst., and very much regret the unavoidable delay which has taken place in supplying you with the duplicating ink. We are having some made up for you and will send it to you as soon as it is ready, which will be in a day or two.

Very truly yours,

*J. F. Rogers*

(883-10-17)

October 17th.

3

John Ott, Esq.

252 Avenue B, City.

Dear Sir:-

I enclose you herewith receipt for making the duplicating ink. Please make up about a gallon of this and advise us when it is ready.

I also attach two statements, showing the amount of cable (No. 16) which has been delivered at 252 Avenue B for us. One shipment was made on October 11th. and the other was made yesterday. We shall be glad to know if you have received the shipment of October 11th., and if you are having the wire weighed, as it comes in, and stored in the Laboratory.

In relation to mercury, we sent a box over to you yesterday which we presume contains the missing article. Please fill all our orders for sulphate of zinc and mercury as quickly as possible.

Very truly yours,

SL

Enclosure, c.



1883-10-18

October 18th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I forward you per early mail chart of Middletown, Ohio,  
with mains and feeders marked off as per determination herewith,  
which please check and comment if necessary, and return as early  
as possible.

Very truly yours,



1883-10-18

October 18th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Friend Sims:-

Wright, Upton's man at Boston, is very fond of blackguarding the Edison business. It all comes out of some dealings I had with him with relation to the Jarvis setting at Lawrence. He told me that Mr. Clarke had undertaken to pay for the setting, if we would order it put in. I consequently ordered it put in, as it would cost us nothing, and Mr. Clarke stated that he had not undertaken to do any such thing, so that the Jarvis setting was not put in. This irritated Wright, and to relieve himself he talked in a manner to Rich which is hardly becoming to the representative of engine builders who have such a champion in Mr. Edison. I should not have written to you about this matter, but I heard of Mr. Wright's remarks through another source. He is doubtless a very good fellow, but he has not the ability to be discreet in what he says, and I should advise you to give him a hint to be more so, the next time you see him.

I was very sorry to have Mrs. Armington, as I would like

1883-10-10

2

to have seen her.

I have cabled home to my mother asking her to wire Mrs. Armington at Queensland inviting her to stay at our house in London during her visit to that City. Please tell Alice this, as I told her I would send such a cable.

Very truly yours,

A handwritten signature, possibly 'S. J.', written in dark ink over the typed name 'Very truly yours,'.

1883-10-18

October 18th. 3

R. Adams, Esq.

City.

Dear Sir:-

Agreeably with your request, I beg to give you below an estimate of the probable running expenses in connection with the electric light installation which it is proposed to make at the Navarro Plate:-

DAILY.

Electrician and meterman.....	3 3.50
One engineer, seven months .....	4.20
Two engineers, five months .....	3.00
One fireman.....	3.00
Coal 4 lbs. H.P. per hour at 3d. being 3 tons year round.....	5.00
Oil, waste.....	.50
Water.....	1.10
Lamps at \$1. each.....	15.00
Insurance.....	1.50
Depreciation (long).....	11.50
Repairs.....	1.50
Stationery.....	.30
Forward.....	50.00

1883-10-18

Forward.....	\$30.80
Water supplies.....	.25
Fire grate bars.....	.20
Taxes.....	1.30
Carting ashes.....	.25
Extras.....	<u>2.00</u>
Total.....	\$37.80

Above based on a daily average of three hours use of the 4000 lamps during the year.

Taking into calculation that parties be absent two months in the year and that only 4000 out of 11000 lights is figured on, it is believed this average is correct.

Adding five per cent interest on say \$100,000., which for 303 days is \$13.50 per day, the daily running expenses will be \$70.80, or \$25,575.50 yearly.

4000 burners burning equal to five cubic feet of coal gas would be 20 lbs per hour or 60 lbs per day of three hours average the running expenses being \$70.80 daily, would bring the cost of each lb equivalent to \$1.16. Paying gas at \$2.25, would make a loss of \$94.10 a day to the occupants of the flats.

Interest at five per cent being already allowed, this

1883-10-18

3

\$34.10 would pay twenty three per cent more on the \$100,000, or altogether twenty eight per cent on the investment, and the investors would obtain a vastly superior article.

very truly yours;

*Zab*

P.S. With 1st apartments, this would be \$740. for each, as investment and light bills would be about \$16.75 per month.

1883-10-18

October 18th.

3

T. Adams, Esq.

City.

Dear Sir:-

Referring to your request for an estimate for the installation of an electric light plant and other electrical work at the eight Navarro Flats, 36th. Street & Seventh Avenue, I beg to state that we will, with the permission of the Edison Electric Illuminating Company of New York, install for the sum of eighty nine thousand eight hundred and fifty dollars (\$89,850.) an electric light plant which will supply at one time 4000 lights, giving ten candles spherical illumination, which is about equal to five feet of coal gas as burned in practice. The plant can be forced on occasions to run 4500 lights. The Edison Electric Illuminating Company will guarantee that the life of the lamps will average 600 hours, when they are run at their rated power of ten candles each, and will also guarantee that ten lamps can be obtained for every indicated horse power.

In addition to the above, the amount named (\$89,850.) includes the wiring of all the Flats for about 11000 lights, the wiring for telephones, electric bells and district telegraph calls to a central station in the Flats, the rostering of the plastering where it is necessary to cut holes in the walls and ceilings, the

1883-10-18

2

furnishing of switch-boards and the fitting up of a central station except the telephones, which you will have to obtain from the Telephone Company, and also the furnishing and erection of speaking tubes throughout the Flats.

The terms of payment that I should require, if a contract is entered into, are as follows:-

Twenty five per centum of the amount of the contract on the signing of same, twenty five per centum when the engines, boilers and dynamos are in their place, twenty five per centum when the electric light installation is ready to supply light and twenty five per centum thirty days thereafter.

Yours truly yours,

*Sal*



1883-10-14

October 16th.

3

Dr. O. A. Moses,

155 East 77th. Street, City.

Dear Sir:-

I should like to see you sometime Saturday morning,  
if convenient to yourself, with relation to your arc lamp shipped  
to Mr. Hatchelor.

I have a communication from him in which he requests me  
to see you on the matter.

Very truly yours,

J. A. E.  
J.

1883-10-19

October 18th.

3

Paul D. Nyer, Esq.

Metropolitan Hotel,

Kansas City, Mo.

Dear Sir:-

Your two interesting epistles of the 14th. inst. were duly received, and I certainly think that you deserve a pretty medal for your bravery, and have no doubt but that your exploits will find a place in your Country's history. To face the braves of the West most certainly requires a man of your spirit, and it is for that reason that you were chosen for the onerous and risky enterprise which you now have in hand. All I hope is that if the worst should occur that you will leave such directions as will enable us to dispose quickly of any balance of account that may be still be due to you in this office.

When you get through at Kansas City return from the western wilds to the civilized and fertile regions of Kentucky and finish your canvass at Maysville.

Meantime, trust in God and keep your powder dry, and remember that the man who gets his hand in his coat-tail first has the best chance.

Very truly yours,

*S. Insull*  
7.

1883-10-19

October 19th.

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I have your favor of the 10th. inst.

Mr Edison thinks that what you propose for Shemokin  
would do very well.

Will you please let me know as early as possible when  
you think you will be able to start at Lawrence?

Have you the ampere meters and the feeder indicators  
there?

Very truly yours,

Saml. Insull  
J

1883-10-19

October 19th.

3

J. C. Tomlinson, Esq.

City

Friend Tomlinson:-

I enclose you herewith a letter from George H. Mackellar with relation to the claim of Charles E. Rocaap.

We owe Charles E. Rocaap about \$1,400., and which we proposed paying him if he had not taken this means of bringing it to our notice. What he refers to as a compromise or account never took place at all. Now if we were to let Charles E. Rocaap sue, it would take him a certain time to win his suit and would also cost him money in addition. What I want to get at is about what it would cost him, and also how long it would take, under the most favorable circumstances, to gain his suit? Then I propose making a settlement with Mackellar or having you do so for the amount of \$1,400., less what it would cost Mr. Rocaap to sue us, and I will extend the payments over the same period as it would take him to win his suit, in fact I propose getting even the the young gentleman. What he claims is an amount which Mr. Edison made him a present of. If you are anywhere near Mackellar's office to-morrow you might call and see him and show a little fight, and state that

1883-10-19

2

the letter has come into your hands in the absence of Mr. Edison and his private Secretary.

Very truly yours,

Edison

1883-10-19

October 19th. 8

W. J. Jonks, Esq. Manager,

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

I shall be glad to hear from you as to when you will  
be prepared to take over the station and run it independent of  
any assistance from my people.

Very truly yours,

W. J.  
J.

1883-10-19

October 18th.

3

A. E. Beach, Esq.

201 Broadway, City.

Friend Beach:-

Will you proceed with the publication of the article on "storage battery". One alteration, however, should be made on the seventh line of the seventh page of manuscript, change the figures 10 to 37, as they ought to read 37 instead of 10.

Can you manage to publish the article in your next issue, as we should like to copy it from your paper into the next Bulletin to be issued by the Edison Electric Light Company, but of course we cannot do so until after your publication of the article has taken place?

Very truly yours,

T. A. E.  
J.

1883-10-19.

October 18th. 3

W. Ward Leonard, Esq.

care Edison Electric Illuminating Co.  
Brockton, Mass.

Dear Sir:-

Your letter of the 13th. came duly to hand.

The report you sent me is exactly what I want.

With reference to carrying three wires into a house, I think it is necessary in small plants to divide the lights partly on to the "A" and partly on to the "P" side.

With reference to your complaint that it is impossible to see how many lights are on one side and how many are on the other, the variation in the amperes meter every evening ought to show you what you want in this connection.

Very truly yours,

J. A. E.  
J.

1883-10-19

October 19th. 3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Referring to your favor of the 4th. inst., the reason that we charge so much for our 300 light machine is that we have so few orders that it is impossible for us to sell cheaper. In addition to the more cost of the machine, we have to stand all the heavy experimental expenses at the Machine Works, as owing to troubles I have had with the Light Company I decided I would not put in any payments to them for this kind of work.

Very truly yours,

J. A. E.  
J.



1883-10-19

October 19th. 3

N. W. Pratt, Esq.

care Babcock & Wilcox Co.

30 Cortlandt Street, City.

Dear Sir:-

Mr. William Burrows, Freight Broker, of 46 Broadway, called on me this morning soliciting our freight, and mentioned your name as a reference.

We have a very great deal of freight, and in order to get good rates and proper attention, I have for sometime been thinking of the advisability of putting it into the hands of a broker.

Will you please advise me what you know of Mr. Burrows, and what your Company pay him for any business he may transact in the business above referred to, and by so doing you will very greatly oblige,

Yours very truly,

N. W. P.  
7

October 20th.

3

Otto A. Moses, Esq.

City.

Dear Sir:-

I have received from Mr. Batchelor a letter dated October 5th, in which the following paragraph occurs:-

"Now about Moses lamps, I have written Moses twice but get no answer. It was understood by Navarro and myself and Moses that they should send me 6 lamps to Antwerp and the models to France to manufacture, on this I told Bergmann that they would send me 6 lamps. Now the fact is I have received here 6 lamps in Paris, and I don't know whether Moses wants his patents protected, as I cannot get a word from him. In the meantime there are people trying for are lamps. Will you please tell Moses about this and if I don't get any answer from him, I shall simply put them up here and he must look after his patent interests himself. Of course there is no question about the price, but the people here have paid for these lamps, and feel hurt because I won't let them put them out to the public."

Will you please let me have your answer to same at your

1883-10-20

2

early convenience, so that I can reply to Mr. Batchelor's letter.

Very truly yours,



1883-10-20

October 20th. 3

W. D. Rich, Esq..

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have your letter of the 18th. inst. and your telegram of ~~the 18th~~ 19th date saying that you had received the sketch we sent you.

In reply we would say that the long upright iron door can be put in party wall with safety by placing a tight wooden door outside of it. I attach a sketch and explanation which I trust will make the matter clear, and convey to you the way in which we understand the matter and our solution of the difficulty, which latter we would prefer adopting instead of lengthening the boiler room, and we trust you will give it your consideration and avoid making the extension referred to.

In reference to grate bars for the Brockton ~~boiler~~ ~~boilers~~ we have to-day sent to Mr. Sprague a bill of lading, and they went forward on the 18th. inst. We have an invoice from Messrs. Babcock & Wilcox charging us with these bars, and as the cost is \$200., we shall be glad to know, if, in your opinion, we should pay the amount. We think we understood you to say that there was some defect in the bars supplied with the boiler, and that these

1883-10-20

2

had to be sent to replace them. If this is the case, it is our  
desire to refute the charge.

Very truly yours,

*Lak*  
J

Enclosure, b.

1883-10-20

October 20th.

3

C. H. Cooke, Esq.

Globe Hotel,

Syracuse, N.Y.

Dear Sir:-

We have received your letters of the 17th. inst., together with map and canvass of Auburn. When we are through with the former we will return it to Mr D. M. Osborne.

We wired you to-day to canvass Hudson and Poughkeepsie on your way to New York.

In reference to counting the number of lights in each store once on Saturday night in order to get the difference in the amount of consumption on that evening from the balance of the week, we consider that your canvass should embody this information, and shall be glad if you will always send it to us in places where there is such a difference as you mention.

Very truly yours,

*2ab*  
*7*

1883-10-22

October 22nd, 1883.

Gustav Seldan, Esq. Supt.

Edison Machine Works,

104 George Street, City.

My Dear Sir:-

I find that your system of charging everything up to stock and then charging it out again to various orders on which the machines are being <sup>made</sup> ~~used~~ does not work at all well so far as my office is concerned. We are having endless trouble in trying to "decipher" the alleged memorandum material used, which memorandums are prepared by Mr Dodge. If the system, which I inaugurated on your suggestion, is persisted in it will result in an extra expense of about \$50. a week so far as my clerical force here is concerned, and such an expenditure is entirely out of the question. <sup>There</sup> ~~They~~ have come to the conclusion that the old system is by far the better of the two, and I write to inform you of this, as when I get back to town the end of this week I wish to arrange with you to return to the old method of stock keeping.

Furthermore, when a few days back Mr Edison enquired of me the method now pursued as to this matter, I informed him that we were dependent for the charging of our material entirely to memorandum prepared by Mr Dodge, and Mr Edison politely informed me that under such circumstances he would not consider my books worth a "damned", as he has absolutely no confidence whatever in any

1883-10-22

2

statements prepared by Mr. Dodge. He gives as his reason for this, that Mr. Dodge made so many mistakes while engaged in the mapping department of the Edison Electric Light Company, and all of which mistakes were of such a character that it would be impossible for him (Mr. Edison) to have any confidence whatever in the work of any one capable of ~~committing~~ making such mistakes as I refer to.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and appears to be "T. Edison".

1883-10-24

October 24th. 3

C. F. Brackett, Esq.

Princeton College,

Princeton, N. J.

Dear Mr. Brackett:-

I beg to acknowledge with thanks your letter of the 18th. inst. together with your letter of the 11th. inst., which we once before received without signature.

I should take great pleasure in going to Princeton to see your dynamometer in action, but unfortunately my present press of business prevents my leaving New York. I have asked Mr. Clarke, the engineer of the Edison Electric Light Company, to go to Princeton and examine the instrument.

Very truly yours,

Lake



1283-10-24

October 24th, 1893

Gustav Selden, Esq. Supt.

104 George Street, City.

Dear Sir:-

In relation to the flexible cable used on the "H" dynamos, we consider that this should be more thoroughly insulated. The present insulation is liable to wear off and cross the poles on base, and we shall be glad if you will give this matter your consideration.

Yours truly,

*W. H. P.*

1883-10-24

October 24th.

3

Messrs. Hermann & Co.

353 Avenue B, City.

Dear Sirs:-

We are informed that you are sending fixtures to Brockton wired with white wire without any tape. This will cause very serious trouble, as the covering absorbs moisture and causes a decided leak, and since this defect has been remarked by everyone who has had any experience with the wire, we consider it very bad policy on your part to supply such material, but feel satisfied that when we call your attention to the matter you will have it adjusted.

Very truly yours,

*J. A. H.*

1883-10-24

October 24th. 3

W. J. Jenks, Esq., ~~Manager~~,

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your favor of the 17th. inst. to Mr. Edison,  
I beg to say that it is his intention to go to Brockton just as  
soon as he can leave New York.

For the past few days he has been confined to his bed,  
but we expect to see him out again to-day or to-morrow.

Very truly yours,



1883-10-24

October 24th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

In relation to safety catches, we beg to say that the white plugs are all right. Bergmann sent a lot of bad plugs to Brockton sometime ago, and in our opinion these ought to be returned. If you will hunt these up and send <sup>them</sup> back again we will have them replaced by new ones. ~~Please~~ Please notify us when you do so.

Very truly yours,

*Gale*

1883-10-24

October 24th. 3

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to return herewith letter from Mr. Schwenk in reference to Mt. Carmel received with your favor of the 20th. inst.

We are having a canvass made of this place with all possible despatch. Our canvasser is at the moment in Hazleton, but will in a day or two go to Mt. Carmel and send us the necessary data to get up plans and estimates.

In regard to the people at that point having secured the ground for a central station, we consider it rather a mistake to be too premature about a matter of that kind, as the location of a lot may make a considerable difference in the amount of our estimate.

In regard to my going to Mt. Carmel to stake off the building or for other purposes, at the moment it is impossible for me to leave New York, and in any event I hardly think that the laying out of the building is such a serious undertaking as to require my personal attention.

We will rush this matter through just as quickly as possible, and write you again when we have something definite in connection with the estimate to submit.

Very truly yours,

Enclosure, 2.

*J. A. G.*

1883-10-24

October 24th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to enclose a letter from Mr. W. G. Sticker the  
Chief Burgess of the town of Milton, Pa., in which he enquires  
about the cost of the electric light. As it is in your terri-  
tory <sup>you will</sup> we presume attend to it.

Very truly yours,

*T. W. H. H.*

Enclosure, H.

1883-10-24

October 24th. 3

M. P. Moore, Esq.

City.

Dear Sir:-

In regard to Mr Oakley, I shall be glad to do what I can to get him a situation.

I think the German Company asked for a motorman, and it would be a good idea for Oakley to go to Bergmann's and Goerck Street and learn all about making motors. We would also have him coached in the interests of the commercial part of the business, and when he has completed his education we can then send him to Berlin.

Very truly yours,

*Tracy*

1883-10-24

October 24th. 3

W. D. Rich, Esq.

Care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We beg to enclose you herewith duplicate bills of lading together with shipping list of the Fall River boilers which went forward on the 22nd. inst.

With relation to firebrick, we would like to know if you use any firebrick lining in your stack foundations? You will notice that in all of our estimates we include 14' of brick stack with this description of lining, but if in practice this arrangement is not observed and if you do not consider it necessary we would like to know about it in order that we may in future leave it out. *of the estimate*

Very truly yours,

*Zak*



1883-10-24

October 24th. 3

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I am in receipt of a letter from Mr. Sprague at Brockton, who says that they had some trouble on the night of the 16th. inst. on account of the exhausts from the dynamo overflow pans leading into the engine exhaust. The drip pipe rises after leaving the exhaust a considerable amount and the result is that a quantity of water always collects in the exhaust and upon starting up this is sometimes forced into the overflow pans on the dynamo and large quantities of water are thrown out from the exhaust, after being lifted not less than thirty feet. While I was at Brockton this same trouble occurred twice, and I am afraid that some day the consequences will be very serious. The drip should fall instead of rising, so that the water might run off, and I wish you would kindly give the matter your immediate attention.

Very truly yours,

*J. A. G.*

1883-10-24

October 24th, 1883

Hall Engine Co.

Erie, Penna.

Dear Sirs:-

Replying to your favor of the 17th. inst. in relation to our making a trial of one of your engines, we beg to say that we should be glad to make a test of a 8 1/2 x 12 engine, which would require a 30 inch pulley. It would be necessary for us to keep this engine one month, and if you are agreeable to bear the expenses in connection with the test, Freight &c. we will be glad to make the trial.

Very truly yours,

*J. L. King*

1883-10-24

October 24th, 8

John Campbell, Esq.

Post Box 637,

Pittsburgh, Penna.

Dear Sir:-

I have your letter of the 16th. inst., and in reply regret to state that there is no position here which I can offer you at the present time.

I shall keep your name before me and shall be glad to do anything for you that I can in my own business, but outside of that

I fear my influence with Mr. Carrett would not attain the end you

desire, and I personally prefer not communicating with him for this object.

Very truly yours,

J. A. L.

1883-10-24

October 24th, 83

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 21st. inst., and in reply would say that we have referred that portion which relates to the safety catch thumb nuts to the proper parties for their attention, and have written Mr. Molden in regard to the flexible cable on "the" dynamos being more thoroughly insulated,

It is not our intention to send a lightning arrester for Lawrence, as the system is underground and does not require it.

The meter scales are quite large enough to weigh 100 light meter plates.

Very truly yours,

*Tak*

1883-10-24

October 24th. 3

William Burroughs, Esq.

40 Broadway, City.

Dear Sir:-

Would you kindly call at this office any time you are passing and can find it convenient to stop in, as I want to see you about placing our freight in your hands.

Very truly yours,

*J. A. L.*

1883-10-24

Very truly yours,

October 24th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 18th, inst. in relation to the connecting up of the fields of the 400 and 500 light dynamos together, and in reply beg to say that we will have these boxes made so that they will go together.

In regard to having feeder switch and safety catch holder in one piece, I do not think this would always be found to work well and should advise keeping them separate.

Very truly yours,

Jaly

(823-10-24)

October 24th.

George W. Wilbur, Esq.

Post Office,

Mt. Carmel, Pa.

Dear Sir:-

We have your letter of the 21st. inst., and in reply would say that your canvass books are not quite completed, but we hope to be able to send them to you in a day or two. We ordered them to be made with 150 pages and also instructed the printer to leave more room for "Remarks" and "Nature of Business."

The Mt. Carmel people are very anxious to have an estimate for an installation at that place, and we wish you to get the canvass in the office here at the earliest possible moment.

Very truly yours,

Gale

1883-10-26

October 26th. 3

William Schwenk, Esq.

Mt. Carmel, Penna.

Dear Sir:-

We have your letter of the 20th. inst., and in reply beg to say that the canvass of Mt. Carmel will arrive in this office in a day or two. The maps will then be put in shape and the estimate made and forwarded to Mr. Shaw in a very short time.

Untill we know the size of the plant required, it is impossible for us to make any comments as to the engines or other material that may be required.

Very truly yours,

Jae  
5



1883-10-26

October 26th. 3

Major S. B. Eaton,

City.

Dear Sir:-

Referring to the attached we beg to say that there was no mistake in the plans of the Fall River building. We had this building so arranged that it would accommodate the extra boilers necessary to be supplied when the time came for increasing the capacity of the plant, but this we arranged in such a manner that "to clean them out it was necessary to enter them from the top" which is a very common thing to do. The Fall River people thought that they would prefer to have them so arranged that access could be acquired from the sides, and as it was merely a question of obliging these gentlemen we decided to yield to their views and consequently gave instructions to have the building lengthened six feet, which has been done.

Very truly yours,

Zac  
J

1883-10-2

*Hartford*

October 28th.

3

Messrs. Harris & Robinson,

Room 2, Frost Co's Building,

Hartford, Conn.

Dear Sirs:-

We beg to enclose you herewith estimates for the installation of Edison Electric Light Central Station plants at Hartford and Southington, Conn.

The former is for a 3206 lamps capacity with street installation for 4462 lights and amounting to \$72,643.20 and the latter for a plant of 950 lamps capacity with street installation for 970 lights and amounting to \$26,636.40.

Our bid for the street installation in the Southington estimate is ~~set~~ based upon the same conditions as set forth in our letter to you under date of the 22nd. inst. You will notice that the cost per lamp in this estimate is \$21.71, which is \$7.44 less per lamp than the 300 light plant, and further it only costs \$3,142.71 to increase the capacity of this plant from 300 lights to 950 lights, which is almost three quarters larger. In view of these facts we would strongly advise the adoption of the 950 light estimate as being the one more satisfactory in all respects.

In relation to the Hartford estimate, this is based upon the assumption that the central station will be placed upon

1883-10-26

2

the \$10,000. lot, the size of which is 60 x 90 and situated North of Alyn Street between Ann & Trumbull Street. We explained to your Mr. Harris, when he was in New York, that all our plans for Hartford had been gotten out upon the assumption that the lot we were to use was to be 60 x 90, and that if the 40 x 90 lot was substituted it would necessitate our cutting off a portion of the building which would admit of the plant being increased to 4800 lights only, unless it were possible to get more land when required at the back, so that the building might be extended. The cost per lamp of this estimate is \$22.76 which, without taking into consideration the very large number of lights covered by our proposed district, namely, 4492, is we consider a low bid.

We omitted to say in the foregoing part of this letter that we enclose statement of the daily running expenses and probable profits on a capitalization of \$30,000. for a 600 light plant at Southington. Were you to install the 650 light plant, the increase in the daily running expenses would be so small as to hardly be visible, while the per cent for dividends on the capital invested, which latter need not exceed \$30,000., would of course be much larger than that shown on the enclosed statement.

Under separate cover we send you the exhibits referred to in the enclosed estimates together with a plan of the arrangement.

1283-10-26

3

of the Southington station.

Very truly yours,

*Lali*  
J

Enclosure.

1883-10-26

October 28th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I enclose you herewith letter from Mr. Batchelor of  
Paris in reference to the possibility of working more than two  
amperes per millimetre on the underground conductors &c.

Please give me full replies to all of Mr. Batchelor's  
questions, in order that I may transmit them to him, and also  
return his letter with your memorandum.

Very truly yours,

*W. H. P.*

Enclosure, A.

1883-10-26

October 26th. 3

Frank H. McCornick, Esq. Pres.

Edison Electric Illuminating Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

We are in receipt of your favor of the 23rd, inst., and in reply beg to say that we are not in the least surprised to hear of the number of broken lamps in connection with your system at Sunbury.

We have received information from our agent, in constant, whom we sent to inspect your plant and ascertain the cause of such breakage, and we find that you have been running these lamps not at ten candle power as they are intended to be run but much nearer twenty. If this course is pursued you cannot but expect to have a very large per cent of breakage. The lamps we sent you were some of those made up a short time since at the factory and the best that we have yet produced.

When Dr. Dotzler was here in New York he visited this office, and during the course of conversation he looked at our lamps and asked the candle power, remarking at the same time that they were not as bright as the light you were supplying at Sunbury. Those lamps of ours were giving at least eighteen candles, so it is therefore quite plain to us what the cause has been to result in

1883-10-26

2

such a large breakage of lamps as you report.

Our agent, who was in Sunbury a few days ago, advises us that Mr. Harr gave positive instructions to the engineer in charge of the Sunbury station to run the dynamos to their fullest capacity. He (our agent) explained to the engineer the disadvantages attendant upon such a proceeding, and regulated the lights.

If you will supply your customers with a quantity of "of light equal to ten candles for each lamp installed, you will find that your breakage will decrease very rapidly. It is much cheaper if customers want more light from a single lamp to supply them with an article designed for a more extensive illumination, but to try and get twenty candles from an article which is only intended to supply half that number is fatal to the long life of the lamp.

Trusting that in future you will regulate the light properly, we are,

Very truly yours,

Tae

1883-10-26

October 26th. 3

Thomas P. Conant, Esq.

care Edison Electric Illuminating Co.

Shanghai, Peking.

Dear Sir:-

This will introduce to you Mr L. C. Walker, whom I am sending to Shanghai to obtain whatever information you can give him in reference to our system of house wiring or anything else he may desire to know. Mr Walker will bring with him samples of the new wire which we are going to use, and he has such instructions from me that he understands the application of it, and I shall be glad if you will give him all facilities possible to enable him to obtain whatever information he requires.

Very truly yours,

Jae  
G



1883-10-26

October 26th. 3

W. F. Bouty, Esq. Pres.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

We have your letter of the 23rd. inst. complaining that the system at Shamokin has been working badly.

We received a letter from Mr. Conant explaining the cause, and it appears that a number of trees have been getting mixed up with the wires and causing crosses on the line. This of course is a matter which can be very easily remedied by having the trees either removed or trimmed, so as not to interfere with our system.

We were also advised by Mr. Conant that the governor on one of the engines was working badly, and we wired him to have it taken off and the flange brightened up, which will relieve all trouble.

We do not see that anything has occurred which would necessitate our sending anybody to Shamokin, as the parties there at present are fully competent to deal with the difficulties which have arisen.

Very truly yours,

*W. F. Bouty*

1883-10-28

October 28th.

J. F. Rogers, ~~Esq.~~

68 India Square,

Boston, Mass.

"Dear Sir:-

We have your letter of the 24th. inst., and must apologize for the delay which has taken place in supplying you with the duplicating ink. It is an article which we have not dealt in for such a long time that the recipe became mislaid and had to be hunted up, which took some time.

We have, however, much pleasure in stating that we have forwarded to your address by express yesterday one bottle of this ink. When you require any more ~~of this ink~~ we will be able to supply it more promptly.

Very truly yours,

*Edw*  
J

1883-10-29

October 29th. 3

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 20th. inst. in reference to a motorman, and in reply would say that we very much regret the delay which has taken place in furnishing you with such a person, but as this kind of a man is not picked up anywhere and we have had considerable trouble in finding one. We have pleasure in stating that we have, however, succeeded in securing the services of a first class motorman who has had charge of the Wosdell plant for some time past, and <sup>he</sup> will report for duty at Lawrence not later than the 1st. inst., and before that if at all possible.

Very truly yours,

J. H. Lord

1883-10-29

October 20th.

F. V. Upton, Esq.

East Newark, N.J.

Dear Sir:-

In relation to broken lamps received at Brockton, do you not think it would be a good idea to pack a half a dozen lamps and handle them roughly in the Laboratory, that is experiment on different manners of packing?

Yours truly,

*W. J.*

1883-10-29

October 29th.

3

*P. J. Garrison*  
W. J. Garrison, Esq.

137 Federal Street,

Boston, Mass.

Dear Mr. Garrison:-

In reply to your letter of the 22nd. inst.,  
asking about the Dart Electric Railway, I should advise you to tell  
your friend not to put a cent into it. It is simply a "catch".

Very truly yours,

*J. A.*

1883-10-29

October 29th, 3

George H. Hopkins, Esq.

137 Temple Court, City.

Dear Mr Hopkins:-

Many thanks for your letter of the 24th. inst.  
in reference to the Sweet high speed engine now being exhibited at  
the Fair of the American Institute. I shall have much pleasure  
in going to see it in operation.

Very truly yours,



1883-10-29

October 26th, 1883

Gustav Soldan, Esq. Supt.

104 Coorck Street, City.

Dear Sir:-

There is a paragraph in Defect Report No. 34 to the effect that the wire bands binding the armatures got loose and came off on the machine which we installed at Harrison, Havemeyer & Co. shortly after starting. These armatures should have wire bound around them as in the central station machines. We never had trouble after we did this, and if you want any further explanation Billy Wright can give it to you.

Yours truly,

*Jae*

1883-10-29

October 26th. 3

A. Stuart, Esq., Secty.

Cincinnati, Ohio.

Dear Sir:-

In order to complete our map of Springfield, Ohio, it is necessary that we should have a correct chart of that town. We have written to the City Engineer twice asking him to make a tracing of his map, but without result other than that our letters have remained unanswered. Could you in any possible way obtain what we require, as it is absolutely necessary that we should have it before we can complete our work, and we shall be glad to hear from you at the earliest possible moment.

Very truly yours,

*S. J.*  
*P. S.*



1883-10-29

October 26th. 3)

W. M. Dooty, Esq.

Shamokin, Penna.

Dear Sir:-

We beg to acknowledge with thanks the receipt of your favor of the 25th. inst. enclosing Mr. John Mullen's check on the Shamokin Banking Company for \$1,000. on account.

In relation to putting your plant in proper shape, we have already written you on the subject, and trusting that you are meeting with no further difficulties, we beg to remain,

Very truly yours,

*Jue*  
*g*

1823-10-31

October 31st.

3

William O. McDowell, Esq.

120 Liberty Street, City.

Dear Sir:-

I beg to acknowledge receipt of your letter of the 27th. inst., and in reply would say that there are so many calls made upon my purse and as I am not interested in the Edison lamp factory, except as a stockholder, I do not feel that I can comply with your request.

I return the list herewith, and beg to remain,

Very truly yours,



Enclosure.

1883-10-31

October 31st.

3

John L. Rogers, & Co.

63 India Square,

Boston, Mass.

Dear Sirs:-

We are pleased to see that by your letter of the 27th. inst. you have received the duplicating ink.

In relation to an invoice, we cannot set a price upon what we have forwarded you, but will arrange with some stationer in New York for the manufacture of the article and will advise you as to where it can be procured in future.

Very truly yours,

*Sal*  
*L*

1883-10-31

October 31st.

3

E. S. Marsh, Esq.

21 East 23rd. Street, City.

Dear Sir:-

Referring to your favor of the 24th. inst., I beg to answer as follows:-

FIRST. The Phonograph is an invention of mine, but nothing has been done with it for the last few years, as my time has been so fully occupied with other matters that I can hardly say whether I shall be able to give attention to it further on.

SECOND. Electricity is already superseding and performing the present functions of gas and steam, but how long it will take <sup>us</sup> to ~~replace~~ the majority of the business it is ~~difficult~~ to say.

THIRD. I must refer you to the books for theories about the nature of electricity.

FOURTH. My laboratory is practically closed at the present time, and there is nothing of any considerable interest to a student being done there.

Very truly yours,

*Edison*

1883-10-31

October 31st, 8

W. Preston Dix, Esq.

230 West Main Street,

Louisville, Ky.

Dear Sir:-

Will you please send us a plan of the lot on the corner  
of Greene and Alleys between Second and Third Streets, upon which is  
situated an old brick <sup>dwellling</sup> ~~dwelling~~ 74 x 160, price \$11,000. together  
with sketch of same showing the position of the house in relation  
to the boundaries of the lot in accordance with the spaces  
marked for distances on the sketch below.

Very truly yours,

*Taa*  
*I*

1883-10-31

October 31st. 2

E. H. Ford, Esq. Trans.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 27th. inst., and in reply beg to say that we have made inquiries from the makers of the balance, which we sent to Lawrence, and find that you are right in stating that the capacity does not reach 300 grammes.

We will order for the use of the Lawrence Company a No. 8 balance to replace the one you now have, which latter we can use where 100 light meters are not called into requisition.

In relation to meters, we understand that your Order No. 1 called for fifty meters of 12 lights, twenty five of 25 lights and five of 30 lights, but inasmuch as we considered this arrangement both unequal and insufficient, we deemed it advisable to make a new arrangement and supply you with a certain number of each of the different units, the aggregate cost of which would be the same as those which we first proposed to supply. We shall, however, have much pleasure in complying with your request to exchange the 12 light meters for an equal number of 25 lights capacity and the 25 light meters for an equal number of 30 lights capacity. We will also have the necessary plates and rubber parts

1283-10-31

2

for the 12 light meters sent you without delay.

We presume you understand that the capacity of these meters is gauged upon the assumption that each light to be recorded by them is of 10 candle power, in other words, a 6 light meter is capable of recording ten 10 candle lights, a 12 light meter records twenty 10 candle lights, a twenty five light records forty 10 candle lights, a fifty light records eighty 10 candle lights and a one hundred light meter will record one hundred and sixty 10 candle lights.

Very truly yours,

Lab  
D

1883-10-31

October 31st. 8

W. H. Dwalley Jr. Eng. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We are in receipt of your telegram of to-day's date stating that Kruesi's men have been ordered home for ten days, and in reply to your query as to why you are being neglected we have to say that inasmuch as the tubes will not be ready for ten days, we do not see the necessity of keeping a lot of men laying idle in Fall River and paying their expenses. You can rest assured that we are fully alive to the necessity of pushing your work and this we are doing to our utmost capacity, but we must really ask your kind co-operation which you can extend to us by exercising a little patience and placing a little more confidence in our capability of keeping the promises we have made to you, namely, to have the Fall River installation completed at the earliest possible moment.

Very truly yours,

*Edison*



1883-10-31

October 31st. 3

J. M. Dooty, Esq., President.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

I have your letter of the 20th. inst.

I am very sorry that you should object to the use of the double wire at Shamokin without first enquiring of me as to the facts. The New York Board of Fire Underwriters do not trouble us in the least, except inside of New York City. In towns like Shamokin they do not interfere with our business at all, as the property involved is comparatively small and, furthermore, I am confident that eventually they will sanction the use of the wire sent you. So far they have not refused to sanction its use, and the matter has simply not been brought before them. I think that you make a great mistake to refuse to have it used at Shamokin.

Very truly yours,



1883-10-31

October 31st.

3

C. E. Speirs, Esq.

care D. Van Nostrand,

23 Murray Street, City.

Dear Sir:-

Will you please let me know per bearer where we can  
find "Archivos of Pharmacie"?

Very truly yours,

1883-11-01

For further information, contact:

Thomas P. Cowant, Esq.

Wonders National Hotel,

Shamokin, Penna.

Dear Sirs,

I send you by this mail a copy of the questions on dynamos and engines and boilers and shall be glad if you will occupy your time by contributing to the literature of this establishment by answering some.

Very truly yours,



1883-11-01

November 1st.

3

H. W. Doubleday, Esq.

Edison Exhibit, Southern Exposition,  
Louisville, Ky.

Dear Sir:-

I send you herewith a set of questions on the motor,  
dynamo, engine and boiler. Will you please answer same to the  
best of your ability and them back to us at your convenience.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and appears to be 'T. Edison'.

1883-11-01

November 1st. 3

T. H. Dwelley, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Your favor of the 31st. ulto, came to hand this morning, and the tone of it surprises me extremely. You refer to Mr. Kraess subjecting you to delays as if he was doing so intentionally. Cannot you understand that it is impossible for his men to be of any use in Fall River until he has the <sup>Supplies</sup> ~~tools~~ there ready to lay. We are just as anxious as you are to have the plant installed quickly, but we must protest most decidedly against the frequency and unreasonableness of your complaints..

Allow me to suggest that it is quite premature on your part to ask on the first of November how we propose to get your plant running by the end of November. I would remind you that you were warned before the contract was closed that there would be considerable delay unless your Company guaranteed the cost of the tubes, so as to enable us to order same in anticipation of our closing the contract, and I would further remind you that you promised to send us such a guarantee and that you failed to do so, and any complaint that you now have to make as to the delay should be made to yourself for failing to send us the guarantee above

1583-11-01

2

referred to and not against us.

I fully agree with you <sup>that</sup> the importance of having your tubes completed before frost sets in has been sufficiently explained upon and that a repetition is entirely unnecessary, and I would again beg of you to exercise a little patience, inasmuch as <sup>working</sup> only twenty three days have elapsed since the contract with your Company was closed.

We are unwilling to give any such bond as you ask for. The work will be done in the best manner possible and will be started as soon as possible. The laying could have commenced at least five days ago if the guarantee from you as to the tubes had been sent at the time we asked for it.

To talk of Mr. Kruesi assuming the responsibility of putting off laying the tubes, seems to me an absurdity. It is to my interest and to Mr. Kruesi's interest that the laying should be commenced as early as possible, although my assertions to this effect do not seem to carry any weight with you.

As to none but competent men being employed, I have yet to find that it has been our habit to employ incompetent men, and the troubles that we met with in Lawrence and Brockton are such troubles as we fully expect to meet with at Fall River.. If you

7883-11-01

can tell us how to avoid them I am sure we shall be very glad to  
receive your advise in the matter.

Very truly yours,

Jah

L

OS

1883 71-03

November 2nd. 8

W. Doran, Esq.

General Supt. of Construction,  
Western Union Telegraph Co.  
125 Broadway, City.

Dear Sir:-

Mr J. Hibler, of 137 Sherman Avenue, Newark, N. J.,  
has applied to me for a position in connection with the erection  
of electric light lines, and states that he has had thirteen years  
experience as foreman of gangs, and refers me to you for informa-  
tion as to his capabilities. Can you so far oblige me by giving  
me this information?

Very truly yours,

*W. L.*



1883-11-03

November 3rd.

3

D. H. Bates, Esq.

Western Union Telegraph Co.

103 Broadway, City.

Dear Sir:-

Ed J. Hibler, of 137 Sherman Avenue, Newark, N. J.,  
has applied to me for a position in connection with the erection  
of electric light lines, and states that he has had thirteen years  
experience as foreman of crews, and refers me to you for informa-  
tion as to his capabilities. Can you so far oblige me by giving  
me this information?

Very truly yours,

*W. L. L.*

1883-11-03

November 3rd.

3

Richard Vause, Esq.

Natal Mercury,

Durban, Natal.

Dear Sir:-

Referring to your favor of the 17th. September, which has been forwarded to me by the kindness of Sir Charles W. Riley, the Consul General of the Orange Free States, Philadelphia, Penna., I beg to state that possibly my Phonograph might be available for the purpose for which you suggest. It would, however, require considerable improvement before being put to such use, and my time at the present is so fully occupied with other matters that I am afraid that this will have to stand over until I have more leisure at my command.

Yours very truly,

*J. H.*

1883. 11. 03

November 3rd. 8

W. S. Andrews, Esq.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr. Gayley, the meterman whom I sent on to Lawrence, was at Roselle for some time. He seemed to answer most of the questions very well, but he had not had that experience with our work which would qualify him to such an extent as Conant.

If Mr. Lord should make any remark with relation to him you might say that Mr. Conant will go to Lawrence shortly, as immediately I can get him away from Shamokin I propose to send him to you.

Very truly yours,



1883-11-03

November 3rd. 3

Thomas L. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

I am in receipt of your letter of the 31st. October, and I send you herewith map of the town of Shamokin, and shall be glad if you will trace thereon exactly where the present lines are run, and where the feeders join the mains, also indicate on the map the position of the proposed new line with the position and probable number of maximum lamps at each point marked thereon. We can then have the sizes of wire determined here in the office. Please attend to this right away and we will return the map to you in the course of a day or so.

Very truly yours,

*Yours*  
*J*

1883-11-03

November 3rd, 1883.

W. H. Swolley, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We are in receipt of your letter of November 2nd., and will have the two 330 light dynamos shipped forthwith.

The terms of payment on which we sell to the Isolated Company are cash on the delivery of the machines. Will you please advise us as to how we are to get payment from you?

Very truly yours,

Edison Mach Co

By S. J.

1883-11-03

November 3rd.

3

E. H. Ford, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr Oakley, our motorman, left here the day before yesterday for Lawrence, and I shall therefore be glad if you will kindly comply with your promise to send me a check for \$10,000.

Yours very truly,

24  
I

1883-11-03

November 3rd.

3

Societe Electrique Edison,

33 Ave de l'Opera,

Paris, France.

Dear Sirs:-

I have your favor of the 17th. October, and in reply would beg to enclose you copy of a letter which I have received from Mr Francis R. Upton, the Manager of the Lamp Company.

I would point out to you that no guarantee has ever been <sup>our</sup> given that the life of lamps would be of 1000 hours duration;

I cannot possibly conceive how our lamps should have been subject to such heavy breakage, unless they were run at very high candle power, as the lamps are of precisely the same character as we are now using in this country and we hear no such complaints here.

Any test as to the life of lamps would of course have to be made in a regular manner, with a constant electro-motive force and the lamps run at the volts they are intended for.

Very truly yours,

Jas  
L

Enclosure.

1883-11-05

November 5th. 83

W. L. Dwelley, Jr. Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

In a letter addressed to Major Eaton by Mr. Spencer Gordon of the New England Department of the Edison Electric Light Company the following occurs:-

"Some of our large stockholders are builders by trade and criticize the character of the masonry brickwork that is going into the building. Mr. Dow told me within a few days that one of the best masons in town said he thought it was shameful to put a building together as this is being constructed."

Our Superintendent, Mr. Rich, was here yesterday and we drew his attention to the above, and he informed us that Mr. Jerome Gordon, one of your Building Committee who has taken an active interest in the work, has expressed himself as being perfectly satisfied, and he also stated that there was no reason whatever for the complaint. As we have not received from you officially any complaint as to the character of the central station work, we shall be glad to hear your views on the above remarks of Mr. Spencer Gordon's, as it is our desire that all our work should



1883-11-05

2

meet with the entire approval of your Company.

Very truly yours,

Zaf  
I

1883-11-05

November 5th. 3

Paul R. Byer, Esq.

St. Cloud Hotel,

Canton, Ohio.

Dear Sir:-

Will you please inform me at your earliest convenience  
how soon you will be through in Dr. Stuart's territory, as I want  
you to go to New Orleans?

Very truly yours,



1883-11-05

November 5th. 3

C. H. Johnson, Esq.

222 Avenue H, City.

My Dear Sir:-

I had a talk with Mr. Edison last night with relation to the <sup>able</sup> ~~same~~ made for us by the Ansonia Company, and he requested me to see you about getting the same passed on and approved by the Board of Fire Underwriters.

I wish you would speak to him about the matter and take it in hand right away, as our central station business is seriously affected by the doubt existing as to whether the Board will allow us to use the tape.

Yours very truly,

S. J.  
P. S.

1883-11-05

November 5th.

3

W. H. Moore, Esq.

Rahway, N.J.

Dear Sir:-

I regret very much to hear that you are about to sever your connection with the Edison Company for Isolated Lighting, and it affords me very great pleasure to testify to your ability and industry in connection with the various matters that you have had in charge on my behalf.

Your trip to China and Japan on my account to hunt for bamboo or other fibre was highly satisfactory to me, as evidenced by the fact that you found exactly what I required for use in connection with the manufacture of my lamps. I was also very much satisfied with the services you rendered me during your connection with the Edison Machine Works, as purchasing agent, and have every reason to believe that you have given perfect satisfaction to the Edison Company for isolated lighting during your connection with them, but as to this matter, I have no doubt that they will be willing to speak themselves.

Wishing you every success, and again expressing my regret

1853-11-05

2

that you are about to leave our business, I remain,

Very truly yours,

*Jas*

1883-11-05

November 5th.

3

"Manager,"

Western Union Telegraph Office,

432 Broadway, City.

Dear Sir:-

Will you please have an American District Telegraph  
call put in Mr. Edison's apartments at the "Clarendon", 18th. Street  
and 4th. Avenue. If the man you send will ask for Mrs. Edison,  
she will give him instructions as to where the call is to be  
placed.

Yours truly,

A handwritten signature consisting of the letters 'S', 'I', and 'P. S.' in a cursive style.

1883-11-05

November 5th, 8

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I am very anxious to have Mr. Ayer go to New Orleans at the earliest possible moment, and shall be glad to hear from you as to how soon you can spare him. It is a matter of very great importance to us that he should be despatched this week, and we therefore trust that you will endeavor to make your arrangements to dispense with his services for the present accordingly.

Very truly yours,

*W. L. G.*  
*W. L. G.*

1883-11-05

65 Fifth Ave., New York Nov. 5th. 1883

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I cabled you the other day as follows, "Peculiar about 130; thickness about par, reputation unsalable, weakful", which according to my code with you you will understand as follows: Edison Electric Light Company stock about 130, Isolated stock about par, European stock unsalable, market generally very weak.

I have been waiting to see whether an advance would take place in the price of our stocks but there does not seem to be much chance of one at the present moment. The depressed state of the general stock market and the great shrinkage in values which has been going on now for months seems to have effected such outside things as Edison Electric Light Stock very much indeed. When the capital was increased to \$1,000,000., some few weeks back, the stock went down about seventy five points, which was of course to be expected owing to the increased capitalization. Isolated stock has greatly fallen until it has got to quite a low point. I had expected that in stead of a decline we should have had a rise in prices, and I based my belief on the improved state of our business, the development of the central station business in small towns and the excellent footing obtained in the first district, but of course the troubles in Wall Street, where every-



1883-11-05

2

thing has been going to the "dogs" for sometime past, besides one's calculations in relation to advance in prices, and under the circumstances I do not know exactly what to do for you, and consequently thought it best to cable you the state of the market.

I wish, on receipt of this, you would wire me in relation to the matter, inasmuch as I leave here for London on the 11th. December, and would not have time to do anything much for you if you wait to write to me. Of course when in London I shall run over to Paris to see you. I am going over primarily for the object of spending Christmas in London with my folks, as it is three years since I came here, and I think my business is in a better shape now than it has been at any previous time and therefore Edison will suffer the least possible inconvenience from my absence.

Now for a few remarks about our business.

Down Town Station. I do not know whether you have heard that the down town district went out one night last week, the lights were out for some two hours. The cause of the failure was given out to be that the safety catches had all melted in consequence of their being large enough to carry only the Summer load, and the man who had charge of the safety catches was made a scapegoat and discharged. Whether this was the exact cause of the trouble or not I do not know at present, but I will doubtless be able to tell you about it in person when I see you. I was away in Cincinnati at the time the trouble occurred, and therefore I am not at all posted as to the cause thereof. As I understand from Johnson

1883-11-05

first one feeder safety catch gave out, which threw the load on the other eleven, then another gave out and so on until there was only one feeder connected, which of course "busted." Sprague is now engaged with Edison down at the Central Station looking into the matter. There is no serious trouble, I do not think, and the district was running again all right two hours after. Although it may seem to you a little "gassing" for me to say so, yet truth compels me to record that the day after the breakdown we had more new applications for light than any day previously. There are now connected up in the First District over 10,000 lamps and our load in the evening is about 3,000, ~~and~~ the average lighting for the whole twenty four hours being about 1,100 to 1,200. Then I come over in December I shall bring with me for your private information figures as to how the station stands. If the showing is very fine I will bring an official statement which you can make use of.

Out of Town Stations. We have now got running Sunbury, Pa. station, 500 lights, Shamokin, Pa. station, 1,600 lights, Brockton, Mass. station, 1,600 lights, Lawrence station 3,200 lights.

Fall River, Mass. station, 1,000 lights will be running about the end of November; Tiffin, Ohio station, 1,000 lights, will be running about Christmas; Newburgh, N.Y., 1,000 lights, will be running about the same time. These stations aggregate about a quarter of a million of dollars of central station contract work.

We have got a number of others coming along, and next Spring we shall undoubtedly do a very large business indeed in this kind of

1883-11-05

work, so you see that our anticipations of large business, when you were here, are about coming true, and I think by next Summer we shall have a great deal more than we can comfortably handle.

Machine Works. Soldan was put in Dean's place at the Machine Works. He has not got that enormous amount of power which Dean had, and I think it is a good thing that he should not have it. The office of the Edison Machine Works is at 65 Fifth Avenue, that is in our office here, and its finances and everything in relation to its business is running very well. We order material from here, and I make arrangements from here with the people we buy from. The Superintendent of the Works builds machines at Coorck Street and takes charge of his men and there his functions end. We had a thorough examination of the books made but there was nothing in them which we could call irregular. The only thing which we could not understand, and which we never as yet have been able to get at the bottom of, and which I do not believe we will ever get at the bottom of, is the enormous prices paid by Dean to his men on contract work. ~~The men who got most of the "boodle"~~ out of those contracts were poor companions of Dean, and they swear that he never got a cent from any contracts that he had with them for this work. It seems incredible that such should be the case, but I do not see any possibility whatever of going behind the statements of the men. I have had private detectives at work, I have threatened and promised and bugdozed but nothing will seem to get out of the men the facts about the case, although I cannot get at the bottom of the matter, I a

2002-11-05  
2002-11-05  
2002-11-05

confident as ever that Mr. Dean had a large "divy" with his men on contracts. I found that Dean borrowed money right and left, and that everybody that supplied the Machine Works with goods were subject to most abominable blackmail and that Edison was fast getting a very bad name, as Dean gave the impression that Edison was fully aware of his (Dean's) private dealings with the people the Machine Works bought from. I also discovered that Mr. Dean had stolen about \$200. worth of scrap, that is he had had the scrap taken from the Works, sent to a man in Brooklyn and received himself the cash for same. Although it might have been possible to indict Mr. Dean for conspiracy for receiving commissions, we were advised that our case would be a very flimsy one, not that we wanted to bring the matter into court, but we wanted to have something that we could hold over Dean if he got obstinate, but of course when I discovered the stealing of scrap, although it was a comparatively small amount it was quite sufficient for my purpose. On last year's orders, which you may remember was a very large one, Dean had due him about \$8,000., the amount of seven per cent profit of the job which Edison promised him. My policy was to save the Edison Machine Works any such sum, and Mr. Dean's stealing scrap gave me the opportunity. We have now in the safe a release from Charles J. Dean to T. A. Edison and Charles Batchelor, trading as the Edison Machine Works, which sets the Machine Works free from any claim that Dean may have had, so is a clear saying of \$8,000. after getting rid of him.

COPY 1  
17440

had to deal with Rocaap. I do not think that he was guilty of any criminal knowledge of what Dean was doing. I do think, however, that he shut his eyes to certain irregularities which I noticed, and ~~which~~ first led me to make my first inquiries which resulted in my reporting the matter to Edison. Rocaap's defence is that Edison stood up for Dean against everybody, and that he (Rocaap) reported several matters to Edison at one time which Edison refused to take any notice of. Anyway Rocaap had to go. Instead of co-operating with me for the last two and a half years he has persistently and consistently put every obstacle in my way to prevent my getting information at Goerck Street, notwithstanding the fact that when he was engaged, it was perfectly understood that he was to work under my direction, and I think if I had had a little more co-operation at the Machine Works, I might have got to the bottom of the trouble earlier. Mr Rocaap also had an unsettled claim against the Machine Works for \$1,400. in connection with ~~some~~ the same deal as Dean, and Rocaap started to threaten suit against us for the amount. I had advised Edison and he had agreed to pay Rocaap, but as soon as the threat to start suit was made, I got Edison to allow me to take the matter in hand again, and I am now engaged in an effort to delay payment to Rocaap and save a possible thousand dollars in settlement. If I succeed it will be due to a smart young lawyer who is handling the business.

Whether Soldan will turn out a good Superintendent or not is very difficult to judge at present. So much of his work this Fall has been of an experimental character, and one can hardly

judge of a man's capabilities to handle work cheaply and quickly in connection with the Machine Works at the present moment.

Anyway he is honest, attends to his business all the time, and he keeps his shop in apparently very good order and everything seems well systematized.

Lamp Company. McLaughlin has sold his five per cent interest in the Lamp Company to Upton for \$12,000.. This would place the Lamp Factory property at a value of about \$250,000. on UPTON'S valuation. Inasmuch as Upton is running the Factory he ought to be better acquainted with this than anyone else, and if he values the property at \$230,000. for the purpose of buying a further interest in it, I should imagine that its real value must be nearer \$300,000. At that present time there is about \$180,000. invested in it, \$100,000. capital and \$80,000. borrowed from Upton. Then you remember that for practically eighteen months or two years it was nothing but outgo all the time and that there was an enormous amount sunk in experimental work, which must be looked upon as so much lost, you cannot but come to the conclusion that the Lamp Factory's business is in a very flourishing state. We are going to put the Lamp Factory into a close corporation with a capital of one hundred shares of \$100. each. This will be done before I go to Europe. Before this is done we shall put experts upon the books and make a thorough examination and balance prior to the business being turned over to a corporation, and I shall hope to bring with me for your information a statement of the Lamp Factory's business, on which you can rely far better than the above

1883-11-05

statement.

Bergmann & Co. Bergmann & Co's balance for the year ending September is now out and they are \$35,000. ahead on the year's business. Of course this is not in cash but in property, as practically all profit of the shops ought to be for sometime to come, owing to lack of working capital. Of this \$35,000. Edison is entitled to one third, which makes \$11,666., and you are entitled to ten per cent out of this one third, which makes \$1,800. You have invested in Bergmann & Co's something over \$4,000.; and if they had ample working capital and a division of the profits had been made at the end of the year, instead of at having been left in the business, you would on your investment of a little over \$4,000. have made \$1,800. cash. As it is of course you simply make on paper, although the property in which the profits have been invested is valuable. I do not know whether Bergmann had done so when you were here, but in addition to the original building, he has bought another lot 25 x 100, which makes the property 125 x 100; and he has built on this small lot a brass foundry and carpenter shop. Bergmann & Co. do all the brass work for the Machine Works and Kruesl, as well as for themselves.

I do not know that I can write you any more just now, in fact if it were not Sunday I would not be able to spend the time in dictating this letter. If you want me to do anything for you or bring anything over, please write me immediately you get this.

As I sail on the "Alaska" December 11th., I shall be in London about December 21st. or 22nd., and shall hope to be in

1883-11-05

Paris about the New Year. I have got to leave Liverpool sometime about January 5th. or 10th., so as to be home before the commencement of February.

Yours very truly,

Written by Samuel Insull  
to.



1893-11-06

November 6th, 3

Major Frank McLaughlin,

Park House,

Newark, N. J.

My Dear Major:-

With relation to your request that I should make an estimate for the erection of an electric light plant to light the Big Bend Tunnel, I beg to state that owing to a sudden rush of business in connection with our central station down town, my time has been so fully occupied since I received the data from you that I have been quite unable to take the matter up. I fear that I shall have to give the greater portion of my time to our central station work for sometime to come yet, and I must therefore ask you to offer my apologies to Dr. Pierce for the delay which will of necessity occur in getting the estimates asked for. The matter is one which I wish to attend to personally, as it is of a special character, otherwise I would turn it over to my engineers for their attention.

Very truly yours,

*Full*

1783-11-07

November 7th.

3

A. E. Beach, Esq.

201 Broadway, City.

Friend Beach:-

Will you please let me know when you think you will  
be able to publish the article on "Storage Batteries" which I sent  
you some time back.

Very truly yours,

*244*  
*3*

1883-11-07

November 7th.

3

George W. Bliss, Esq. Supt.

Chicago, Ills.

Dear Sir:-

We have your letter of the 5th. inst. relative to Mendota, and in reply would say that we consider your idea of allowing the people there to "cool off" a good one.

We have not yet received definite information as to Appleton, although we have been daily expecting it. We also would be interested to know what steps are being taken in regard to Racine.

Very truly yours,

*John*

1893 11-07

November 7th.

Mr. J. P. Conant, Esq.

Dear Sir:-

Referring to your wish to be removed from Shamokin, I fully sympathize with you and trust that your teeth will hold out until the troubles at Shamokin are fixed. Immediately everything is running nicely, I will see that you are removed from the land of tough steaks, and if you will only come on here some evening at 6 o'clock, I will take you up to Delmonico's and regale you with such a meal as you have not seen in ages.

Very truly yours,

A handwritten signature, likely of the sender, consisting of stylized initials and a surname.

1883-11-07

Nov. 7th.

Dr. T. P. Conant,

Dear Sir:-

I have your favor of the 4th. inst.  
and in consequence of the receipt thereof have decided to send  
Anderson & Sims' men on to Chamokin immediately. I enclose  
per letter from Dr. Dooty which I shall be glad if you will re-  
turn to me with such explanation of the troubles as your previous  
correspondence may not have contained.

Very truly yours,

Jain  
J

1883-11-07

November 7th.

3

Joseph Williams, Esq.

San Jose, Cal.

Dear Sir:-

In replying to your letter of the 20th. inst., in which you ask if a telephone could be operated onna railway train, I beg to say that it is possible, especially if the instrument used is a string telephone.

Very truly yours,

Sam<sup>y</sup>

1883-11-07

Nov. 7th.

F. R. Upton, Esq.

East Newark, N. J.

Dear Sir:-

We have complaints from the Sunbury company about the  
areing of their lamps.

Very truly yours,

*Yak*

1883-11-07

November 7th.

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

I am in receipt of your telegram of the 1th. inst. asking why definite work has not been begun as promised, such delays are ruinous. You must really leave to me to decide when I shall send a man to a certain town to start the work locally. Immediately a contract is signed that warrant the work continues although it may not be visible in the town where the plant is to be installed. We have quite an amount of machinery, wire &c. to get out before it is possible to do much work locally. This has been proceeding and I do not think you have any cause for complaint as to delay at Tiffin. As matter of fact our Supt., Mr. Fich, left Fall River Monday night for Tiffin, and signs of work will be visible there in a few days.

Very truly yours,

*Fah*  
J



1883-11-07

November 7th.

William J. Ward, Esq.

Brown's Hotel

33 Fulton street,

Brooklyn, N. Y.

Dear Sir:-

I have your letter of November 7th. If you will  
apply to Messrs Hermann & Co., 222 Ave. B., they will let you  
test your motor there if you show them this letter. They have  
constant current and will I feel sure give you the facilities you  
desire.

Very truly yours,

T. A. J.

1783-11-07

November 7th, 3

Samuel Inzull, Esq.

Boston, Mass.

Dear Sir:-

In relation to Lawrence, I beg to say that in accordance with our Order No.1, as per the items on the attached statement marked "C", the Illuminating Company is indebted to us to the extent of \$6,734. In accordance with item "b", which I believe was accepted by Mr. Lord, it being the same that you made to him from Brockton, they owe us \$1,208.20. Item "B" is for the extension of the mains on the North side of Essex Street, and is the amount in connection with which we had the correspondence with Mr. Lord, and he did not appear desirous of accepting our figures for this work, stating that their contract with Mr. Edison covered the full system to be ordered as they wished. Item "D" is for laying mains to the City Hall, which was not included in our contract, and amounts to \$108.14. The amount of the bill which I attach is for house services, tools &c., as per details shown, and amounts to \$1,242.05, and these amounts aggregate \$12,608.83. The full amount of our contract with the Edison Electric Illuminating Company of Lawrence for street installation is \$10,840. You will notice that in Order No.1 the amount for street installation is

1953-11-07

2

\$6,734., which is item "c" on the attached statement, and this deducted from the full amount allowed in the estimate for street installation leaves a margin of \$1,112., which was to be devoted to completing the system in accordance with our exhibits sent with the estimate, but inasmuch as they have ordered more work than we agreed in the first place to do and they have exceeded that amount considerably. I have deducted from the statement \$100. for a meter balance which we agreed to supply in Order No.1, and which was charged into the Lawrence Illuminating account erroneously.

You can make any other deductions you see fit, but as I do not know the amount you would wish to deduct for office furniture, inasmuch as we specified none in our estimate and I consider it better to leave this for you. You will see that the amount which the Lawrence Company owes us is \$1,002.83 and over and above our contract with them.

Very truly yours,

ad

1883-11-07

November 7th. 3

Samuel Insull, Esq.

Boston, Mass.

My Dear Insull:-

In regard to our Lawrence affairs I am sending you two bills. One is itemized and shows the actual cost to us for the material supplied by Kruesi for house services, &c. and the other is the regulation bill with twelve per cent added, which latter I presume you will use for collection. I regret very much to say that I have hunted everywhere to obtain a copy of the Exhibit which accompanied the estimate we sent to the Lawrence Company amounting to \$32,572, but have utterly failed to obtain one, nor can I find anywhere the letter which I am still under the impression you wrote designating the course of the mains.

I am very sorry to have to write you this, but it is simply impossible for me to discover where this data is, and you will now have to obtain the Exhibit from Mr. Lord. The course of the mains as specified in our Order No. 1 is in accordance with Item "C" on the Statement which I have attached. I cannot even find Kruesi's bid for the street installation in accordance with the item (you will understand when I say estimate I mean the full Order which includes Order No. 1).

1883-11-07

2

In relation to Brockton accounts, I have also enclosed two bills, one itemized for your own information and the other with the twelve per cent added.

I trust that you will recognize the fact that this data is as complete as I can make it, and at the moment of writing this I am in the same humor as you will be at the moment of reading it.

I enclose the Lawrence contract which you may possibly want in settling up affairs there.

Yours very truly,

*Arley*

1883-11-07

November 7th. 3

K. H. Lord, Esq. Trans.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your favor of yesterday's date enclosing check for \$10,000. on account of our contract for the installation of central station plant at Lawrence.

Yours very truly,

Zac

1883-11-07

Nov. 7th.

Mr. H. Ward Leonard,  
Brockton, Mass.

Dear Sir:-

I have yours of the 4th. and must request you to stay  
at Brockton for the present and not to come to New York before  
going to Baltimore until you have advices either from this office  
or from Mr. Insull who will be East during the next few days.  
You are mistaken if you think we want you to go to Cooper street  
to experiment. We desire you to stay at such station as you are  
sent to until we request you to go elsewhere.

Very truly yours,

Jae  
J

1853-11-07

Nov. 7th.

Mr. Frank S. Barr,

Sunbury, Pa.

Dear Sir:-

I have your favor of the 3rd. of November. With relation to the charge for 33 candle lamps, I would beg to say that the average lighting time for the 305 days in the year is at 9 o'clock in the evening. Hotels want the light until 2 A. M. This makes 8 hours at 1 <sup>1</sup>/<sub>4</sub> cents per ten candles per hour. The amount would be 3 <sup>3</sup>/<sub>4</sub> cents per hour or 30 cents for the 8 hours. This would give you about \$110 for the 305 days of the year. If you charge \$30 per year it would be at the rate of about 1 <sup>1</sup>/<sub>10</sub> per thousand feet of coal gas. You might make a contract at this rate only by the month with the privilege of stopping when you get loaded up and have an opportunity of taking better consumers. I agree with you that the extension of your mains should take place before the cold weather comes. If you will please have your meter man mark upon the charts sent herewith exactly where the present mains run and where the feeders run and also mark on the chart where you propose running your new mains, I will have calculations made and let you know exactly what size of copper wire should be run for the extended circuit. I cannot understand why your lamps are so.

Very truly yours,

*Thos*



1883-11-08

November 8th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Replying to your letter of the 6th, inst. in reference to arc lights, we beg to say that we have an arc light ~~as~~ that can be worked on our circuit, but not nearly so economically or satisfactorily as incandescent lights of large power. Our large power lamps are getting to be excellent in life and economy.

We have a new wire and all devices requisite for using it and we hope in a few days to be in receipt of authority from the Board of Fire Underwriters to use it. If we fail to obtain this, which is hardly likely, we should do wiring in the old manner.

In relation to Cynthiana and Maysville estimates, we are pushing them through with all possible speed, and will make them as low as we can.

Our Superintendent, Mr. Rich, is at the present moment iniffin, and will see that everything is done to advance work there.

Very truly yours,

*W. H. C.*  
*J.*

1883-11-08

November 8th. 3

Charles S. M. Small, Esq., Pres.

N. Y. Electrical Society,

Room 40, W. U. Building, City.

Dear Sir:-

Replying to your letter of the 5th. inst., I beg to say that it would give me great pleasure to comply with your request and deliver a lecture for the benefit of the Members of your Society were I possessed of the powers of oratory requisite for such an occasion. The fact of the matter is I never delivered a lecture in my life. You of course understand that there is a very great difference between talking and inventing, and though I have made rather a success of the latter the former is an accomplishment which I do not possess, and I must therefore ask you to very kindly accept my regrets together with my best wishes for the well-being of your Society.

Very truly yours,

*July*

1583-11-08

November 8th.

3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

Herewith we beg to enclose our estimate No. 30 for the erection of an Edison Electric Light Central Station Plant at Keenah, Wis. of 500 lights capacity and amounting to \$7,660., together with map "A" referred to in the estimate, showing the course of our proposed street installation, which takes in 600 lights. The estimate is based upon the assumption that the local Company provide the building, power and all necessary shafting, pulleys, hangers, bolting &c. to and including jack shaft, requisite for the proper and efficient operation of their station.

In regard to our bid for street installation, this is based upon the assumption that all permits and concessions necessary to be obtained from city authorities or private parties shall be procured by the local Company, to enable us to erect poles and run our wires in accordance with the red and white lines on Exhibit "A". Should they fail to obtain any of these and thereby cause us any additional expense, it is understood and agreed that they shall reimburse us to the extent of the excess. You will observe that the cost per lamp of this installation, as far as we are

concerned, is \$13.77. As it only remains for the local company to erect their building, which need only be a small one, the installation is going to be a particularly cheap one, and we think our part of it will be found satisfactory in all respects.

If you come to any definite understanding with these people which would necessitate formal agreement, we shall be glad to send them.

Very truly yours,

*Jan*  
5

1813-11-08

November 6th, 8

Spencer Gordon, Esq.

Boston, Mass.

Dear Sir:-

We enclose herewith our estimate No. 34 for the erection of an Edison Electric Light Central Station Plant at Natick, Mass. of 1,000 lamps capacity and amounting to \$23,234.36, and under separate cover we send you our Exhibit "A", showing the course of our proposed street installation, together with plan of proposed central station. You will notice that the cost per lamp of this estimate is \$23.23, which, for an underground system, we consider very reasonable. The Newburgh installation, which we have just closed, came to about the same figure.

We also enclose you our estimate No. 35 for the erection of an Edison Electric Light Central Station Plant at Norwich, Conn. of 1,000 lights capacity, and under separate cover we send you our Exhibit "A" referred to in the estimate, showing the course of our street installation, together with plan of central station, the details of which are the same as the Natick station. This estimate amounts to \$23,370. or \$23.37 per lamp, which is about 43 cents per lamp in excess of the Natick estimate. This excess is accounted for by the fact that our proposed street installation in Norwich will accommodate 1,210 lights, whereas the street installa-

tion in Matiel takes in but 1,000. We will send you whenever necessary forms of agreement for closing either or both of these contracts, but if anything is to be done in the matter this Fall, immediate steps must be taken, as in a very short time we will have frost to contend with which would of course put an end to everything in connection with dimming up streets for the purpose of paying our mains.. If the Matiel or Norwich people wish to do that business we consider these estimates give results which must be perfectly satisfactory. They will of course understand that by delaying the matter until Spring they will lose a great deal of money by not being able to take advantage of that season of the year when the average burning of light is the longest.

We shall be glad to hear from you as early as possible what steps are being taken to effect a settlement, and in the meantime we beg to remain,

Very truly yours,

*John*  
9

153-11-08

November 8th. 3

M. C. Polknap, Esq. Secretary,  
Edison Electric Illuminating Co.  
Newburgh, N. Y.

Dear Sir:-

We have the pleasure to enclose you herewith revised plan of the Newburgh central station showing all the details necessary for your contractor to have. We trust that the details of it will be accurately carried out, as any deviation would greatly interfere with our arrangements.

Our Superintendent will visit Newburgh shortly to see how you are getting along.

Very truly yours,

*Wm. J.*

1883-11-08

November 11th. 3

W. Burrows, Esq.,

Room 1st,

40 Broadway, City.

Dear Sir:-

Will you kindly let us know the ~~extra~~ third class rates to Menah, Wis. and Danbury, Conn. We require these rates for estimating purposes and it will be necessary for you to quote from the tariff at the present time in force. When we come to ship material we will supply you with the forms you suggested properly filled out, in order that you may obtain special quotations for us on our material.

Very truly yours,

744  
7



1883-11-08

November 8th.

3

Messrs. Harris & Robinson,

Hartford, Conn.

Dear Sirs:-

We have the pleasure to enclose you herewith our estimate No. 31 for the erection of an Edison Electric Light Central Station Plant at Danbury, Conn. of 1,000 lights capacity and amounting to \$25,014.50. On account of having to prepare this estimate under great pressure, in order to keep our promise to you to mail it to-night, it was impossible for us to send a man to Danbury for the purpose of inspecting the streets, preparatory to making a bid for the street installation. On this account the amount which we have estimated for same is subject to revision. Mr. Kruesi, of the Electric Tube Company, will go to Danbury this week, if possible, and certainly not later than Monday, and obtain such data as he may require to enable him to submit a fresh estimate for the street installation, and we will immediately advise you of the result. You will notice that as the figures stand now the cost per lamp is \$25.91, but this is accounted for by the lighting of the district being very much scattered and necessitating long mains and feeders. In Newburgh, N.Y., where we have just closed a contract and commenced work, the cost per lamp was about

1893-11-08

2

\$223., but the district was much more compact than Danbury and the feeder much shorter. You will see that the comparison between the two estimates would be very favorable, and the seemingly high average per lamp of the Danbury proposed installation is very satisfactorily accounted for by the larger amount of copper which it is necessary to use and the greater amount of excavation required to lay the mains, also the fact that these mains are laid to accommodate 1,271 lights.

Under separate cover we send you map "A" referred to in the estimate, showing the course of our proposed street installation, and if you come to any definite arrangement with the Danbury Company, we will forward you forms of agreement. Under same cover we send you plan of our proposed central station, showing the general arrangement of its interior.

Trusting that these will meet your requirements, we are,

Very truly yours,

*Far*  
3

1883-11-08

November 8th. 1883

H. Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your letter of the 7th. inst., we beg to say  
that we consider it would be advisable for you to purchase the  
Photomotor you mention.

Yours truly,

*Tae*

1883-11-08

November 8th.

3

Hall Engine Co.

Erie, Penna.

Dear Sir:-

Replying to your letter of the 6th. inst., we beg to say that we understand that there is some question about patents existing between your Company and the Armington & Sims Company. We are not bound by this latter Company in any way, and we use their engines because they have given better results in our business than any other engine we have ever tried. In the matter of countershafting, we never, under any circumstances, make use of it, as we consider it to be an impediment to the proper and satisfactory working of our stations..

Have you any opinion of experts that your engine is patent free, if so would you be kind enough to let me see it?

Very truly yours,

*Sal*  
*y*

1883-11-09

November 6th. 3

P. R. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We have your letter of the 5th. inst. in reference to the breakage of lamps at Sunbury, and in reply beg to say that we have sent an expert from the Lamp Factory who will ascertain the cause of the trouble.

We have to-day written Mr. McCormick very fully on the subject, and trust in a short time to eradicate the difficulty.

Very truly yours,

*J. M. J.*

1883-11-09

Mt. Carmel

November 8th. 8

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to enclose herewith our estimate No. 73 for the erection of an Edison Electric light Central Station Plant at Mt. Carmel, Penna. of 500 lights capacity, and amounting to \$14,500. and under same cover we send you map "A" referred to in the estimate, together with plan of proposed central station. This installation, as you will see, comes to \$29.12 per lamp, which considering that the street installation covers nearly 200 more lights than the nominal capacity of the plant and that the installation is a very small one (in which cases the cost per lamp always runs up high) is a very fair estimate. The central station to-night have been located at a better point, but as you understand the Mt. Carmel people purchased the lot for this purpose without consulting us in the matter. The Sunbury installation, we might mention, came to about the same figure, and we feel sure that when you explain to the Mt. Carmel gentlemen about the cost per lamp running up very high in such <sup>small sized</sup> ~~small size~~ plants, they will understand the case and fall in with our ideas that the estimate is a good one. There is one thing that we wish to impress upon you and upon the gentlemen interested at Mt. Carmel as forcibly as is

1893-11-09

possible for us to do it, and that is, that there must not be a days delay in giving us the order for this installation, if they desire it to be put in this Fall. In a very short time we will have frost to contend with which would put an end to all work in connection with excavating for our pole line and foundations. The M. Carmel Company will of course understand that by delaying this matter until Spring they will lose a great deal of money by not being in a position to take advantage of that season of the year when the average burning of xxx light is the longest.

We will send you to-morrow forms of agreement filled out and executed as far as we are concerned, and if we get this order at once, we will commence work right away.

Trusting you will recognize the necessity of a very prompt reply, we are,

Very truly yours,

*Mc*

Enclosure.

1883-11-09

November 9th. 3

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition,

Louisville, Ky.

Dear Sir:-

We enclose herewith our check No. 248 for \$75., and wish you would be good enough to return to New York at once. Please wire us when you leave Louisville, which we trust will be on Monday the 12th. inst.

Very truly yours,

Jae  
J

Enclosure.



1893-11-29

November 29th.

Frank H. McCormick, Esq. Pres.

Edison Electric Illg. Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

We have your letter of the 5th. inst. in reference to the breakage of lamps at Sunbury, and in reply beg to say that we have sent an expert from the Lamp Factory to Sunbury, who will very soon ascertain the cause. We strongly suspect that your local man has cut some customers in by running the service from the feeder instead of the main. What you should have done was to have ascertained at what particular place the breakage occurred, after which the cause of such breakage could be very readily obtained. The same lamps as you are using are in service at Shamokin, Brockton and Roselle and give 800 hours. The Lamp Factory's guarantee is that if run at ten candle power, they will last 800 hours, and we know from experience, which is the best evidence that we could possibly have, that these lamps are capable of bearing out the guarantee. We regret that Mr. Harr should have been so incensed on account of the letter we wrote you, as Mr. Conant simply quoted the statements made by the engineer at Sunbury. The Lamp Factory expert will, however, find out the cause of the excessive breakage.

ALLEN H. AG. COLLECTOR, RBD. FLORE.

2

of lamps in Sunbury and adjust the matter so that there will be  
no further trouble.

Very truly yours,

*Jan*  
*9*

1853. 1109

November 8th. 3

J. F. Hunn, Esq. Vice President,  
Tiffin Edison Electric Ill. Co.  
Tiffin, Ohio.

Dear Sir:-

We have your letter of the 3rd. inst. asking us to name a date when the Tiffin installation will be ready to supply light. In reply to that query we would say that the work on the station has already been commenced there and that its completion will not take more than twenty or twenty five days. The wire for the pole lines will be in Tiffin in about ten days, and this work can proceed in unison with the work on the station, and should be completed about the same time. We do not like to state positively that we will have the plant running by a certain time, but we want you to feel assured that ~~xxxxxxxx~~ we will do everything in our power to meet your wishes and have it running about the 15th. December.

In relation to lighting the public garden you speak of, as far as we can tell from the incomplete information given in your letter, this appears to be in Block 40. We are to submit a proposal to Mr. Stuart for lighting this block, together with some other blocks, and when that has been received it will give you the

1983-11-09

2

information you desire on that point. We trust you will understand that it is our desire to meet your wishes in this case and that the reason that we do not promise absolutely to start on the 10th. December is that there are so many points to be taken into consideration in making a promise of that kind that we consider it better for ourselves and for you to place the matter in the light we have, notwithstanding the fact that we feel reasonably sure of being able to meet your wishes.

Very truly yours,

*Zak*  
J

Sunday,

November 11th. 3

W. S. Hastings, Esq.

15 West 50th. Street, City.

My Dear Mr. Hastings:-

I have been receiving since last Wednesday very pressing telegrams from Messrs. Harris & Robinson asking me to attend a meeting at Southington to-morrow (Monday), and I have repeatedly telegraphed them that it is simply impossible for me to do so, and yet they persist in wiring me to attend the meeting. Now after I get there I do not see what good I can do, inasmuch as the license contract with the Light Company has not been closed yet. Harris & Robinson say that the most important stockholder leaves Southington for the South on Tuesday morning, and I think it is more a matter of the light Company's <sup>business</sup> than the Construction Department's for the present, as I am positive, from my experience elsewhere, that after I go there there will be a lot of useless talk, and I will have to go later on to get my contract closed. I have besides very important business to-morrow, having been out of the office the whole of last week, and I write to ask if you can go to Southington on the eight o'clock train to-morrow morning. If so, I would like to see you before you go, and I will come up to your house or I will meet you here anytime up to

1883-11-11

2

three o'clock this afternoon, after which hour I do not know where  
I shall be.

Will you please let me hear from you by bearer.

Yours very truly,

Sf

1883-11-12

November 12th. 3

Paul D. Dyer, Esq.

Warner House,

Chillicothe, Ohio.

Dear Sir:-

I have your various letters from Canton. I am very anxious to have you go to New Orleans as soon as possible, and I want you to hurry through on Mr Stuart's work. You must finish with him by Saturday next at the latest.

Very truly yours,



1873-11-12

November 18th.

3

J. G. Oliver, Esq.

Toronto, Canada.

Dear Sir:-

Referring to your favor of the 6th. inst., I beg to inform you that my experiments are in the main confined to incandescent electric lamps, and the substance you mention for carbon points for arc lamps will therefore be of no use to me.

Very truly yours,

Zag  
I



1883-11-12

November 12th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Your letter of the 11th. inst. came duly to hand.

We are delighted that you should recognize the fact that it is quite true that we cannot supply estimates unless we have the data whereon to work. Tiffin work was started immediately the writer got back to New York. Do you not know that there are several things to be done in connection with material before we can have men on the ground actually at work in the town itself.

We are pushing Maysville and Cynthiana estimates as quickly as possible, but I must remind you that we have a few towns outside of your territory that we have to estimate on.

That despatch about Mr. Edison going to Louisville was received during the writers absence from town. That lets the Private Secretary out, but it was answered just as soon as Mr. Edison could be got out at by the Private Secretary's assistant. If you did not get the reply you must blame the Western Union Telegraph Company and not us. I doubt very much whether Mr. Edison will go to Louisville at all. It is probable, however, that Major Eaton will go South sometime within the next week or so.

1883-11-12

November 12th. 3

Why don't you give us some more contracts, which is after all the main encouragement to us to keep plodding away at estimates. One little contract of \$18,000., which required a week of the writers time to get executed, and a trip of something like 650 miles, is hardly sufficient to justify the heavy investment we are making in canvassing, estimating and such like on your behalf. Where are those other two contracts that you said we should have within a few days of my leaving Cincinnati?

Very truly yours,

SS  
P.S.

1883-11-12

November 12th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Referring to your letter of the 7th. inst., it is very important that Mr Dyer should leave your territory by Saturday next. We really think that you have enough canvasses to get along with. We have kept him in your district so long, to the prejudice of our business elsewhere, that we feel compelled to insist upon his leaving you by Saturday next at the latest.

Hoping that this will not cause you any great inconvenience, we remain,

Very truly yours,

Jas  
I

November 14th. 3.

Straight Line Engine Co.

Geddes & Fayette Sts.,

Syracuse, N.Y.

Dear Sir:-

We beg to acknowledge with thanks receipt of your favor of the 10th. inst. in relation to royalties on your engines, and will await the communication you propose sending us.

Yours truly,

Jac  
I

1883-11-13

November 13th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 8th. inst., asking us to send you an estimate for Piqua, with the central station located on the Farrington lot. The map which you mention in your letter came to hand a few minutes ago, and it has therefore been impossible for us to comply with your request to wire the figures "on Monday". Inasmuch as you want us to do very close figuring on this estimate, we wish you would <sup>have</sup> the attached form filled in by some reliable person as accurately as possible, as to prices in Piqua. We shall be glad to have this returned at the earliest possible moment, as we can give you no figures whatever until it is received by us. You also omitted to send us the size of the lot mentioned in the foregoing part of this letter. Of course we could have guessed at this size, but that is not always a safe thing to do. Please send us full particulars about this new lot in accordance with the form attached.

Yours truly,

*Wm. J.*

1883-11-13

November 13th. 5

W. J. Jones, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your letter of the 12th. inst. in regard to books and stationery covered by the amount of \$30. in the Brockton estimate, we beg to say that it was our intention to supply a full set of books, together with special forms which we considered necessary for the running of your business. Some of these books are now being prepared by the printer, but it is our intention to make an allowance on this item and charge you only for what we supply..

Yours truly,

  
P.S.

1883-11-13

November 13th. 1883

Frank S. Farr, Esq. Trans.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 11th. inst., and in reply would say that you can order cleats from Messrs. Bergmann & Co., 292 Avenue B, City.

<sup>cleats</sup>  
You ask for vulcanized fibre cleats and brads to go with them. The cable can be obtained through us or by applying direct to the Ansonia Brass & Copper Co., 19 Cliff Street, City.

In regard to the breakage of lamps, it is very strange that your meterman has not sense enough to see that his indicator is too high on one side and too low on the other. It requires but a small amount of judgement to make a comparison between the brightness of the lamps on the two sides. He should regulate these sides evenly and reset his indicator. Your breakage of lamps should be about fourteen a week.

Yours truly,

J. A. L.

J

1883-11-13

November 18th.

3

Col. C. E. Gouraud,

74 Madison Avenue, City.

My Dear Colonel:-

I have gone thoroughly into the matter of the division of the Edison-Gower-Bell Telephone shares coming to the Edison interests and I do not see how I can do better than to offer a division of them on a basis of four-tenths to go to you for the countries you put in and six-tenths to go to the Edison Telephone Company of Europe here; you taking your proportion of the six-tenths, which you are entitled to under your arrangement with the New York Edison Company.

If you will write me a note accepting the division as above stated, I will have the papers fixed up and mailed to you by Thursday's steamer without fail. I think that they should be put in a little more formal shape than that indicated in the former letter already agreed upon between you and myself. I am very sorry that the matter should have been put off so long, but it was quite unavoidable.

Hoping that you will have a pleasant trip home, believe me,  
very truly yours,

209



1883-11-13

November 18th. 3

John Decker, Esq.

Lewisburg, Union Co., Penna.

Dear Sir:-

In reply to the query contained in your letter of the 5th. inst. as to whether it would be possible to collect atmospheric electricity on conducting wires, in order to obtain light, I beg to say that the process is possible but highly impracticable.

Yours truly,

John  
I

1883-11-13

November 13th. 3

O. W. Wilber, Esq.

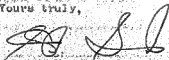
Corner 4th. & Rodman Sts.

Fall River, Mass.

Dear Sir:-

Please report at the earliest possible moment to this office and be prepared to take a journey South. We want you just as soon as you can get here, and we shall be glad if you will wire us on receipt of this when we may expect to see you.

Yours truly,

A handwritten signature in dark ink, appearing to be 'S. L.' or similar, written in a cursive style.

1883-11-13

November 12th. 3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

We have your letter of the 9th. inst. in reference to Appleton and Racine. In relation to the former, we trust that the information necessary for us to have, in order that we may prepare an estimate, will come to hand soon. We are glad to see you state that the Racine estimate was satisfactory.

Herewith we beg to enclose you two copies of the form of agreement which is entered into by the local company with this Department. We presume you have copies of the licensee contract which the Parent Company uses in extending privileges to the local company. If you have not these latter copies Mr. Hastings will supply them.

Yours truly,

*J. H. Hastings*

Enclosure.

1883-11-14

Personal.

November 14th.

3

George Worthington, Esq.

23 Park Row, City.

Friend Worthington:-

You are "barking up the wrong tree". Why did you not come and ask Mr. Edison if he was the originator of the "Times" article before charging him in your paper with the "crime". You know him well enough and can easily get at him, and therefore it would certainly have been a little more courteous if you had applied to him for information before allowing the article in your issue of the 8th. to be put in print. As you state "fair play is a jewel" and I might add that it is hardly fair play to judge a man guilty in advance. As a matter of fact Mr. Edison had nothing whatever to do with the article in question.

I write this for your personal information and not for publication.

Yours very truly,

*SD*

1883-11-14

November 14th. 3

W. L. Garrison, Esq.

137 Federal Street,

Boston, Mass.

My Dear Sir:-

On my return to New York I spoke to Mr Edison with relation to the wiring. We are, at this writing, doing our best to get the cable accepted by the Board of Fire Underwriters.

They have appointed a Committee to look into the matter, and Major Eaton and Mr Edison are going to draw up a statement setting forth the advantages to us of using the cable, and immediately that is got out I understand that the Committee above referred to are to come here and tests are to be made with the cable to prove its adaptability to the purposes for which it is designed, and also to prove its safety when used instead of the ordinary two wires.

We all recognize that the question of cheapening the wiring is about the most important matter at present under consideration, and you may rely upon every possible effort being made to give you something acceptable to the fire insurance people, and cheaper than the material now used for house wiring purposes.

Very truly yours,



1883-11-14

November 14th. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I have the pleasure to enclose you herewith a small order for copper wire for use at Mt. Carmel, Penna. I also enclose you copy of our contract with the Edison Electric Illuminating Company of Mt. Carmel. The parties in interest are good substantial people, and in fact every way satisfactory to us. We have undertaken to start our plant by the 15th. December, and you will therefore please hurry this wire as much as possible. It should be shipped from your Works at the latest ten days from date.

It is impossible for me to get down town to-day, and if you can have the necessary papers prepared and returned by bearer, I will execute them and send them right back to you. I shall be glad if you can let me know whether you can ship the copper in the time above specified.

Yours very truly,

Enclosure.

1893-11-14

November 14th. 3

W. H. Dwyer, Jr. Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 12th. inst., I am of the impression that you will have to use the old method of wiring until we get permission from the Board of Fire Underwriters to use the new cable. They have the matter under consideration, but it is pretty difficult to force them to deal with it quickly.

I should therefore think it advisable not to mention to your probable customers that we have a cheaper method of wiring under way.

Very truly yours,

Jah  
I

1883-11-14

*Dynamos*

November 14th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Your letter of the 30th. inst. came to hand this morning.

I do not see why we should keep up our prices on lamps if it is going to ruin our lamp sales in Europe, and I shall therefore be very careful what I say in reply to Fargos letter, which you say is to come here. Anyway I should by no means be disposed to accede to his request, considering that he is bidding for the English Lamp trade as against us.

*Link* relation to the 100 light dynamo we sent to Berlin, we have not up to this writing made any single corn machines.

We propose to do so at some future time, but now it will interfere with the manufacture of the German dynamo I cannot see. Our policy is, when we design and build a machine, to be very careful to sell all machines of a given design before we bring out anything better. By this means we have ourselves being "stuck" with a lot of obsolete machines. We have sold in this country all the old forms of dynamos and our new types are now coming out.



and we are none the worse off financially for having brought out such new designs. It would be ridiculous, as you well know, to suppose that we could build a machine and say that there will never be any alteration. Your Ivory friends do not seem to understand this matter. Do they think that simply because we are going to turn the 100 light machine into a single magnet machine, that we propose throwing ~~away~~ <sup>now in stock</sup> all those that we have built with the double magnet? At this writing we have about fifteen double magnet machines of the 100 light type at Coercal Street, and they will all be sold before we make any single magnet machines. We follow this policy out right through our business. The first "H" machines that were made would run only 350 lights and were of the long magnet type. We built about twenty of them. Then we got out the improved "H", on which we can run 450 lights with ease. The whole of the former were sold with the exception of two, and these two we have just managed to dispose of without any sacrifice whatever, and at the same price at which we sold the improved "H", to a very obliging customer who wants 700 lights and nothing more, although he can get 800 for the same figure.

I am delighted to hear that you propose returning, and the sooner you do so the better. The prospects are that we shall

plenty of work and very few of us to do it.

Yours very truly,

Zak  
J.

1893-11-14

*Sunbury*

November 14th. 3

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We closed this morning a contract for the installation of a plant, which is practically the duplicate of Sunbury, at

Mt. Carmel. We have got to start the plant about the 17th. of

December, which you will notice gives us little more than a month to do the work in. It is highly important that you should make a

trip to Mt. Carmel at the earliest possible moment. If you will

please advise me by wire to-morrow when you can go there, I will

meet you here at the office at any time when you may indicate when

you go through New York on your way. It is necessary that I

should have a talk with you before you go to Mt. Carmel, and it is

also necessary that you should go there at the earliest date com-

patible with your arrangements for the pushing of the work at

Fall River.

I enclose you herewith check for \$500. as requested in your note left here yesterday.

Very truly yours,

*S. J.*

15x3-11-14

November 14th. 3

Charles Batchelor, Esq.  
Paris, France.

My Dear Batchelor:-

I got your letter of the 30th. inst. this morning, and was very much pleased to hear that you will soon be free and propose coming back here, but I am very sorry to say that I do not know exactly what to do with relation to stock matters for you. My long letter to you of about a week ago will have explained the situation thoroughly. I ought to have posted you earlier, but you know how we are situated here and that must be my ~~apology~~ <sup>Apology</sup>. I arranged with Edison this morning to cable to you asking if \$1,000. would be of any service to you, and if so, to draw on him at three days sight for same.

I hope that you will not leave la Belle France before I get over to see you. Why cannot you arrange to come back on the "Oregon" about the 15th. January? That is the time that I propose returning from my trip to England.

Yours very truly,

S. J.

November 14th. 3

W. S. Andrews, Esq.

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr. Doubleday has returned to town from Louisville, and I propose sending him to you on Friday night. Is he to go to Lawrence or Fall River? If the station at Fall River will not be ready for you to start in there, I want Mr. Doubleday to spend the time between now and when it will be ready, in Lawrence, so that you can further post him on our work, as I arranged with you when I saw you last.

Please let me have a reply by Friday morning's mail without fail.

Very truly yours,



1873-11-14

November 14th. 8

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to Order No. sent herewith, I beg to state that it is absolutely essential that you should ship the engine to St. Carmel inside of fourteen days. This is the longest possible time that we can give you, and therefore will rely upon your not disappointing us in the matter, as we have undertaken to start our plant about the 15th. December.

Very truly yours,

Enclosure.

1853-11-14

November 14th. 3

P. B. Shaw, Esq.

Post Office,

Hazleton, Penna.

Dear Sir:-

We beg to enclose you herewith our estimate No. 72 for  
the erection of an Edison Electric Light Central Station Plant at  
Hazleton, Penna., amounting to \$20,084.41, and with <sup>conductors for</sup> ~~a capacity~~ of  
1,219 lights, which we hope will reach you in time.

Very truly yours,

*Jak*  
*J*

1883-11-14

November 11th. 8

Messrs. Morris, Tasker & Co.,

15 Gold Street, City.

Dear Sirs:-

We enclose you herewith our order No.      for steam piping to be shipped to Mt. Carmel, Penna. As this order is very small we trust that you will be able to fill it for us immediately. We require to use this steam piping in connection with a time contract that we have taken, and you will therefore very much oblige us if you can state positively the date that you can ship the piping and fittings from Philadelphia.

Very truly yours,

Enclosure.



1883-11-14

November 14th. 3

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have arranged with the Isolated Company to buy one of their large engines now at Louisville to go to Tiffin, and have ordered them to ship it to W. D. Rich, care Edison Electric Illuminating Company, Tiffin, Ohio. Will you please make the necessary arrangements to have it received there. I presume it will be shipped inside of a week.

Very truly yours,



1883. 11- 15

Shamokin

November 15th. 3

Thomas P. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

I duly received your favor enclosing statement of the  
receipts for the first fifteen days record at Shamokin.

Will you please let me have a statement of the running  
expenses of the station for the same period.

Very truly yours,

*Wm*

*l*

1883-11-15

Patents

November 15, 1883 3

Deutsche Edison Gesellschaft,  
Berlin, Germany.

Dear Sirs:-

Referring to our cables confirmed elsewhere, the statement that the Sawyer-Mann people have beaten me in a patent suit is entirely untrue. Your Patent Attorney will explain to you that the procedure in the American Patent Office is that if two applicants cover the same point in their application for a patent, the matter is thrown into "interference", and the merits of the case decided by the Patent Office, and if they are appealed against the decision is revised by a higher court. The Board of Examiners who are the scientific part of the Patent Office decided the Sawyer-Edison interference in my favor. The Sawyer people then appealed to the Commissioner of Patents, who reversed the decision of the Board of Examiners. We have now appealed to the Secretary of the Interior, but have no idea who will win.

Anyway whoever wins, the case will be carried to the Supreme Court. There is really no great question involved in the application, and we fight it out on the general policy that whoever we have a

dispute in the Patent Office we carry the matter to the highest possible Tribunal to obtain a settlement. The Sawyer interference refers to matters in relation to paper carbon, the use of which is entirely obsolete, and if I gain the case the result will simply be a little gain of prestige on my part, inasmuch as I should never think of using paper for my loop in the present advanced state of the art.

Very truly yours,

*John*  
*I*

November, 15th.

3.

W. J. Jenks, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Referring to your favor of the 12th. inst., we shall be very glad to make equitable arrangements with you to furnish you with two machines in place of the one you now have as a spare. At the present time we have not dynamos of the class required on hand, which we could send you. I will notify you as soon as we have, and will see what proposition I can make as to taking the one you now have back again. You have such a standard equipment as we were able to estimate for at the time the contract was made with the Brockton Company. The smaller machines were not at that time designed, and it was impossible for us to contract for anything else. It is not practicable at present to use the three brushes, and I doubt very much if it would be desirable with the new system of winding, which at present is not in that state of perfection which will allow of our using it. I shall probably <sup>write you</sup> be able to discuss in the course of ten days or so as to supplying you with two smaller machines. Cannot you arrange to put all the "late" lights, or those required in the morning, on one side of

Black & White Illustrating Co.  
100 N. 1st St. St. Louis, Mo.

the circuit, so as to avoid the necessity of reversing the current through the meters on one or the other half.

The Lawrence Company contracted for "H" machines and afterwards requested me to supply them with a spare, their original intention being to use an old "K" as a spare. To do what you desire will require a few extra switches and an extra resistance box I think, but at this writing we have not worked out the exact plan by which we intend to operate the two small machines in a plant where "H" machines are used for the general running.

We are doing all we can to cheapen up the wiring.

We have not, up to this writing, been able to get the cable, of which we sent you some samples, approved by the Board of Fire Underwriters. They have appointed a Committee, however, whose duty it is to look into the matter, and immediately we can get some action taken by them we will write you as to the matter.

Very truly yours,

John  
J.

1883-11-15

*Recd. Mr. J. J. J.*

November 15th. 1883

George H. Bliss, Esq. General Supt.

Chicago, Ill.

Dear Sir:-

Enclosed herewith please find statement giving the full particulars as to these dynamo machines asked for by you. If there are any further details that you desire we will send them to you. We think that we can send ~~some~~ blue prints of the foundations in the course of ten days or so.

Very truly yours,

Enclosure.

1883-11-15

El. Lt. - Foreign  
- France

November 15th.

3

J. F. Bailey, Esq.

Paris, France.

Dear Sir:-

Referring to cables elsewhere confirmed, I beg to inform you that I have cabled to the Societe Electrique Edison, Paris, stating that I have not got a man whom I can send to start the Edison Lamp Factory in Germany. So many of our men have gone to Europe that, in justice to our Home Company here and our manufacturing interests, it is imperative that we should keep what good men we now have to do our work in this country. We have a great deal of it and very few people to do it. It certainly seems to me that the Ivory Factory ought to be able to supply the man required.

Very truly yours

*J. F. Bailey*  
*J*



1883-11-15

November 11th. 3.

Societe Industrielle et Commerciale Edison,

Ivry-sur-Seine, France.

Dear Sirs:-

Referring to your favor of the 12th. October, I beg to  
give you below prices of the various Armstrong & Sams engines.

14" 2 x 18 engine.....\$ 1,000.00

10" 2 x 12 engine..... 1,000.00

8" 2 x 10 engine..... 775.00

I presume the ten per cent royalty should be paid on the  
prices named.

Very truly yours,

1893-11-15

November 15th, 3

American Bell Telephone Co.

95 Milk Street,

Boston, Mass.

Dear Sirs:-

Referring to your favor of the 13th. inst., we beg to state that the 1000 carbon buttons were shipped to you on the 13th. inst. Will you please advise us whether you will require any more than them, inasmuch as we have to rig up specially to make them, and would like to have a number made now if you are liable to order any more within the next few months.

Very truly yours,

*Juk*

I enclose you herewith our bill for the 1,000 carbons.

1873. 11. 15.

November 18th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have looked into the matter of the engine shown to Mr. Insull by you when he was in <sup>Cincinnati</sup> ~~Cincinnati~~ and I am confident that it is of such a character that it would absolutely be of no use to us in our business. It would therefore be useless for me to go further into the question, unless Messrs. Smith, Myers & Co. got up an entirely different engine. From the explanations given me by Mr. Insull, I do not wonder that they could have built the engines so much cheaper than those we now use. They are of a very cheap character and would by no means answer our purposes.

Very truly yours,

Jah  
I

1883-11-15

November 15th.

3

E. Buchol, Esq.

101 Conti Street,

New Orleans, La.

Dear Sir:-

Your favor dated October came duly to hand, but the picture referred to therein did not arrive until a day or so back.

It affords me very great pleasure to acknowledge its receipt and to thank you for your very great kindness in sending me so charming a painting. It is very difficult to do justice to such a compliment and I therefore will not do so, but simply return you my heartfelt thanks for your very great kindness.

May I ask you to accept a copy of my photograph, which I send by express.

With relation to the Phonograph, I have been so busy in developing my system of electric lighting for the past few years that I have been compelled to drop all other matters.

Very truly yours,

1883-11-16

November 18th,

3

C. E. Spiers, Esq.

22 Murray Street, City.

Friend Spiers:-

We are going to have a "L" to-night, that is we propose putting the books in order up stairs in the library.

If you have nothing particularly to do, I think it would be a favorable opportunity for you to get information as to the missing volumes and duplicate sets and also greatly assist us, if you can favor us with your company. The performance will start in about eight o'clock.

Very truly yours,



1883-11-16

November 16th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge receipt of your telegram as follows:-

"Hazelton contracts signed and forwarded to you via Reading Express, together with check and draft for twenty five per centum. Push the work."

I congratulate you on the speedy closing of these contracts, and can assure you that the work will be pushed ahead rapidly.

Our Superintendent, Mr. Rich, will be in Mt. Carmel Monday, and as soon as he has started work there, he will go to Hazelton. I presume he will be in Hazelton about Tuesday or Wednesday.

Our material for Mt. Carmel is all practically ordered, and we are assured of such early deliveries that I anticipate that there will be no delay in the installation of this plant, and I have every reason to believe that the Hazelton work will go forward with the same rapidity.

Very truly yours,

Zak I

1883-11-16

November 16th. 8

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have your favor of the 13th. inst., and in reply beg to state that it is impossible to send you an estimate for Cincinnati until we have the position of the central station lots.

The letter as to this will go forward to you to-day.

We can do nothing with the new estimate for Piqua until you give us the exact size of the lot, and the information written for some days back.

Very truly yours,

A handwritten signature, possibly reading 'S. J.', is written in dark ink.

1883-11-16

November 10th,

3

C. E. Spiers, Esq.

23 Murray Street, City.

My dear Spiers:-

Have you got a cut of Mr Edison's arc lamp?

Prescott wants it for his book.

Very truly yours,





1873-11-16

November 16th.

3

Mrs. E. Adams,

180 Irving Street,

Woodside, N. J.

My Dear Mrs. Adams:-

Can you tell me the exact date that your late husband first sailed for England? We want to get at it in connection with some of our business here *on telephone suits*

Yours very truly,



1853-11-16

November 18th. 3

Paul D. Dyer, Esq.

care A. Stuart, Esq.

Cincinnati, Ohio.

Dear Sir:-

Under separate cover we send you some of our special  
now  
reports, which we desire you to fill out for each town you canvass.  
Please be careful to obtain as reliable information as you can  
possibly get in regard to local prices. We also wish you would  
note on this report the date you arrive in a town and the date you  
leave it.

Very truly yours,



1883-11-16

November 16th, 3

Paul D. Dyer, Esq.

New Orleans, La.

Dear Sir:-

Referring to your favor of the 13th. inst. with relation to the trouble at Circleville, Mr. Edison state that the fault was with the engine used. He cannot imagine how the local people expect to bring the lamps up to the candle power with ~~the engine~~ it running at 1100 revolutions when 1500 revolutions is required. Rotary engines generally take in steam at 100 lbs. and let it out at 40 lbs. Four horse power is all that is required.

Very truly yours,

*Edison*  
*P.S.*

1883-11-16

November 16th. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We enclose herewith blue prints of the districts of  
*Haystack*  
Tiffin and Mt. Carmel, together with plans of our central stations.

We desire you to send us a complete list of the electrical material required in each of these places, *as quickly*  
*as possible*

Very truly yours,



Enclosure.

1893-11-16

November 16th. 3

Paul A. Dyer, Esq.

Post Office,

New Orleans, La.

Dear Sir:-

I enclose you herewith letter of introduction to Mr  
W. B. Berliner, of the La. Telephone Co., New Orleans, La., who is  
the gentleman you are to see there.

Very truly yours,

1883-11-16

November 10th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

In accordance with the attached forms we send you under separate cover by same mail two blue prints each of Synthiana and Haysville. One of these prints is marked with the red circle, in which it is desirable to obtain options on lots, and the other one shows where we propose running our lines. We send you these latter in order that you may inspect them and if there are any difficulties which would prevent our following the course shown on same, we shall be glad to be advised of it. Furthermore if there are any additions which you wish to make or any portion of the districts marked that you desire to cut off, we wish you would advise us by letter to that effect, at the same time returning the charts which we send you.

We pursue this course in order that it may not be necessary for us to make more than one electrical determination for each place, as these determinations consume a great deal of time, which at the present moment we can but ill afford to lose. The date when you will receive the estimates for those places entirely depends upon the degree of promptness which is used in

DEAR SIR:-

CHICAGO, ILL. OCTO.

YR. OFFICE, 226, 226A.

returning to us the information asked for herein.

Very truly yours,

*W. H. L.*  
*I*

Enclosure.

1283-11-16

November 16th. 3

Messrs. Borgmann & Co.

302 Avenue B, City.

Dear Sirs:-

The bearer of this, Mr. Wikler, has been engaged by us to take charge of the construction of our pole lines for village plants.

Will you please confer with him as to any stock you may have on hand which might be useful to us in this work, as I may possibly be able to take it off your hands.

Yours truly,





1883-11-16

November 16th.

3

Patrick S. Carter,

Telegraph Instrument Makers,

Philadelphia, Penna.

Dear Sirs:-

Can you possibly give me the date that you made the first telephones for me, together with a copy of the order, copy of the bill you rendered me and where the telephones were delivered and any such information that might suggest itself to you.

If you have copy of the drawings used by you in making the above referred to telephones, I should be glad if you could loan them to me.

Very truly yours,

*Wm*  
*I*

*I refer more especially to the Carbon  
Telephones*

1883-11-16

November 16th. 3

E. T. Greenfield, Esq.

41 Ann Street, City.

Dear Sir:-

The bearer of this, Mr. Hibler, has been engaged by us to take charge of our line construction work for village plants. Mr. Hibler informs me that he is acquainted with you. If you can give him any information such as your experience at Sunbury and Shemokin would suggest to you, I shall be much obliged.

Very truly yours,



1853-11-16

November 18th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N.Y.

Dear Sir:-

In accordance with the attached form we send you under separate cover by same mail two blue prints of Poughkeepsie, one marked with a red circle, within which it is desirable to obtain options on lots, and the other shows the course of our street installation. In relation to the latter, we wish you to examine it very carefully, and if there are any obstacles which would prevent our running the lines as shown thereon, we desire you to advise us of them by letter, also make any suggestions you may think desirable. Furthermore if you wish to add to the district or cut off any portion of it, we desire to be advised of the fact with accurate information as to alterations. We pursue this course in order that it may be necessary for us to make only one electrical determination, which shall be final, as at the present time we are so pressed with work that we can very ill afford to lose time over anything.

Very truly yours,

*Zak*

1883-11-16

November 16th. 3

H. Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Will you please send me an exact statement of the customers connected, the number of lights they are burning, the amount of their bills, for last month. Those collected and uncollected. Also the amount of the running expenses of the station for last month and ~~also~~ other detailed information that you can give me, as I have again and again asked you. What I desire is a detailed statement and not the general remarks to the effect that everything is running smoothly.

Yours truly,

*W. L.*

1883-11-17

November 17th. 3

N. C. Yost, Esq. Treas.

Edison Electric Illuminating Co.

Hazleton, Penna.

Dear Sir:-

I beg to enclose you herewith contract signed by myself for the erection of a central station plant at Hazleton, Pa., and I have the pleasure to acknowledge receipt through Mr. Shaw of your check for \$1,000. and the draft of your President drawn in my favor at ten days sight for \$4,171.10, the latter being accepted by you on the 15th. November.

My Superintendent leaves here to-morrow night for Mt. Carmel, Pa., and immediately he gets through there, which will be about Tuesday, he will proceed to Hazleton and start the work there. Meantime all our material has been ordered, and we will push the construction of the station as vigorously as possible.

Very truly yours,

Jac  
By S. J. Attorney

Enclosure.

1893-11-17

November 17th. 3

P. B. Shaw, Esq.

Williamsport, Penna

Dear Sir:-

I have your favor of the 14th, inst. enclosing two signed copies of the contract for the installation of a central station plant for the Edison Electric Illuminating Company of Hazleton, also check of the Treasurer for \$1,000. and also a draft drawn by the President and accepted by the Treasurer for \$4,171.10 payable the 20th. of this month. I have acknowledged receipt of same to the Treasurer of the Company.

Very truly yours,

*Yours*

November 18th. 3

Straight Line Engine Co.

Syracuse, N. Y.

Dear Sir:-

I have your favor of the 18th. inst. and note contents.

I will discuss the matter with Mr. Sweet on his visiting me here in New York. I have wired you this morning that I will see him any day that he may call upon me.

Very truly yours,

Zach  
L

1883-11-19

November 18th. 1883

John De Lacy Duffy, Esq.

132 Nassau Street, City.

Dear Sir:-

Referring to your favor of the 17th. inst., all we require is men to make maps to scale here in our office from data already obtained by our agents outside.

Very truly yours,

A handwritten signature, possibly reading 'S. H.', is written in dark ink below the closing text.



1883-11-19

November 18th. 8

S. B. Eaton, Esq. Prost.

City:

Dear Sir:-

We have your favor of the 18th. inst., and can have the estimates you refer to made immediately we learn from Mr. Markle the towns he requires canvassed.

Can you give us his address, as we wish to reach him by telegraph immediately, in order to give our canvasser, who is now in Madison, instructions to proceed into Mr. Markle's territory?

Very truly yours,

*Wm*  
*J*

1883-4-19

November 16th. 3

Frank H. Mc.Cormick, Esq., Pres.  
Williamsport, Penna.

Dear Sir:-

Will you please have the certificates of stock due Mr Edison, under his basis of settlement with you, issued in his name immediately the authorization of the increased capital is effected. Of course if the Company decide to pay the cash instead, we shall be glad to receive your Treasurer's check for the balance still due.

Very truly yours,

*SL*  
*P.S.*

1883-11-19

November 19th, 1883.

Gustav Soldan, Esq. Supt.

104 Goorek Street, City.

Dear Sir:-

Mr. Hutchinson reports to me that he is very anxious to get some more 30 light machines. Will you please hurry the orders you have for them, namely, the balance of the ten on an old order and the ten which I recently ordered from you.

We are also urgently in need of 200 and 300 light machines.

I enclose you herewith an order for ten 200 light machines, and would urge you to get the requisitions ~~made~~ quickly as possible. I am urgently in need of at least five of them.

Yours truly,



1883-11-19

November 16th. 1883.

Gustav Soldan, Esq. Supt.

104 Georek Street, City.

Dear Sir:-

Will you please alter my order No.25, for ten 200 light dynamos, to five 200 light dynamos, as I find that will be quite sufficient for present purposes.

I enclose you herewith a further order (No.26) for five 300 light dynamos.

I may state that every dynamo ordered by me to built has now been placed. This remark applies equally to the orders some-time previously placed and those sent to-day, including the above, and you will therefore see how necessary it is to push them through quickly.

Yours truly,



1583-11-19

November 18th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I beg to enclose you herewith all the letters we have received recently from Shamokin with relation to the engine there. I received a second telegram yesterday stating that a second engine had broken down. The reports from our man do not seem to agree exactly with the statement of the case as shown in your favor of the 14th. inst.

Will you please return this correspondence as soon as possible, and oblige,

Very truly yours,

*Zah*  
*I*

Enclosure.

1883-11-19

November 18th. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 14th. inst., we will supply Mr. Lord with the spare dynamos at the earliest possible moment, but at this writing it is impossible to say how soon <sup>that</sup> ~~we~~ will be. We are straining every nerve to turn machines out, but when I tell you that the patterns were only completed the last of last week you will understand that it will take a little time before we can have the machines ready to deliver to Mr. Lord, inasmuch as we have Isolated Company orders of from three to four months standing, which take precedence of everything else.

Very truly yours,



1883-11-19

November 18th. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.,

Lawrence, Mass.

Dear Sir:-

I think we ought to pay Mr Parry a salary just to cover his boarding expenses, or I might pay his board and a nominal salary besides. Will you please let me know how useful he is to you and we will pay him accordingly?

I have another man who is by no means as well posted as Parry, but whom I should like to send out to a station to learn the practical work. <sup>if you can use him</sup> I was thinking that you might well do this if you were to put him say under Doubleday at Fall River.

Will you please let me know if you can make any disposition of his services, <sup>he is here</sup> ~~as a bookkeeper~~, and all the experience that he has got has been in Georel Street for the last few months, and before he went there he was with Messrs. Verity, of London. I fancy he was their bookkeeper, but he has a liking for mechanics, and I should very much like to make use of him if only <sup>as</sup> a favor to Mr. Johnson. Of course if you <sup>start to</sup> ~~can~~ use him and find out afterwards that he is of no use, we could tell him so.

Please advise us as to this at your early convenience.

0051, 42:2

• **CONTRACTING** •

\* (c) INFORMATION IS NOT TO BE RELEASED

www.bwv.com

January 20, 1944

11-2-11

1873-11-19

2

In addition to the Fall River, Taffin and Newburgh stations, we have closed contracts for Hazleton, Penna. 1,000 lights, Bellefonte, Penna. 800 lights and Mt. Carmel, Penna. 500 lights. You will therefore see that we shall need a good many men later on, and the more we can break into our work now at the smallest possible expense the better.

Very truly yours,

89



183-11-19

November 10th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to your favor of the 10th., I telegraphed you on Saturday to send an engine, with the same size pulley as that previously sent, to Shamokin. I received a telegram yesterday from Shamokin stating that the second engine had broken down, and immediately wired you to send a man on to Shamokin at once. I have wired you this morning asking you to answer my telegram, as I am very anxious to know whether the engine has been shipped and if the man has started, as I am very much afraid that our Shamokin plant would come to a standstill, and this would be very disastrous. Every moment's delay in not sending your man there will cost us a great deal of money, as we are only able to run one engine now, which compels us to reverse the current through the motors and this prevents our getting any correct meter records.

Very truly yours,

*Zac*  
*J*

*Have since got your telegram saying engine  
leaves for Shamokin tomorrow*

1853-11-19

November 18th, 3

W. H. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 15th. inst. to Mr. Edison,  
he now instructs me to send you a copy of the questions and answers  
but wishes to impress upon you that this is solely for your use.

Very truly yours,

A handwritten signature, likely of Thomas Edison, consisting of a stylized 'E' followed by a flourish.

1883-11-20

*Brockton* November 20th. 8

W. J. Jenks, Esq. Manager.

Brockton, Mass.

Dear Sir:-

Will you please inform me if you think we can take  
our experts away from Brockton right away. If not, what date  
would suit your convenience?

Yours truly,

*Jak*  
*L*

1893-11-20

November 20th. 3

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We beg to draw your attention to the fact that there is still ~~xxx~~ a balance of \$2,000. due to us under our contract with you for the erection of the plant at Shamokin. It was the understanding of our Mr Insull when in Shamokin last that the balance due at that date should be settled shortly from the proceeds of sales of \$3,000. of bonds. We have only so far received a remittance for \$1,000. on this account, and would esteem it a favor if you would oblige by sending us a check for \$2,000. to balance, so that we can close out our account.

Very truly yours,

*J. M.*

1883/11/20

November 20th. 3

W. D. Rich, Esq.

Bush House,

Hellefonte, Penna.

Dear Sir:-

We are notified by our freight broker that he has secured for us the following rates:-

For Tiffin, Ohio, via the Lackawanna & Mt Wreight Line, first class, 50 cents, second class, 40 cents, third class, 35 cents, fourth class, 27 cents. Each of these rates is subject to a rebate after the arrival of goods at their destination, as follows, first class, 6 cents, second class, 4 cents, third class, 3 cents, fourth class, 2 cents. To Newburgh, via the New York, West Shore & Buffalo, first class, 20 cents, second class, 20 cents, third class, 10 cents, fourth class, 10 cents, and carload lots are to be billed at  $7\frac{1}{2}$  cents per hundred pounds, and anything less than carloads, but not less than 5000 pounds is to be billed at 6 cents. To Mt. Carmel, Penna., via Philadelphia & Reading, first class, 40 cents, second class, 32 cents, third class, 25 cents and fourth class, 18 cents, upon shipments in carloads we can obtain a rate of  $14\frac{1}{2}$  cents per hundred pounds, but on account

of the irregular manner in which it is necessary to be sent forward we do not expect to be able to take advantage of this rate of 14 1/2 cents.

Very truly yours,

By

1883-11-20

November 20th. 3

W. Preston Nix, Esq.

338 West Main Street,

Louisville, Ky.

Dear Sir:-

We have your letter of the 17th. inst. in reference to the option on the lot chosen for central station purposes in Louisville running out in ten days.

We enclose herewith map of Louisville, and beg to call your attention to the fact that if we can obtain a lot in Blocks 40, 41 or 42, which are marked in red-lead pencil, it will reduce the cost of the street installation by about \$20,000. The most desirable point for this lot is where we have made a star in red. You will see that it would be economy to pay a good price for a lot in this locality, considering the heavy expenditures which will be avoided by doing so.

Kindly let us hear from you as quickly as possible as to what you can do in the matter, and oblige,

Very truly yours,

The T. A. Edison Constn. Dept.

By 

1873-11-20

November 20th. 3

Messrs. Harris & Robinson,

Trust Co's Building,

Hartford, Conn.

Dear Sirs:-

Mr. Hastings referred to us a letter from you a few days ago in which you requested a memoranda of the installations we have made and the amount of each contract. We beg to attach a statement giving the information you desire. The first column shows the nominal capacity of the plant, the second the number of lights included in the district wired and the third the total amount of the contract.

Very truly yours,

The T. A. Edison Constr. Dept.

By





1883-11-20

November 20th. 3

Spencer Borden, Esq.,  
P. O. Box 3311,  
Boston, Mass.

Dear Sir:-

In reply to your favor of the 10th. inst., which through  
press of work has remained unanswered until to-day, we beg to say  
that we were fully aware of the fact that we had not included  
spares in the estimates for Norwich and Natick. You will notice  
that the boiler capacity necessary for the operation of these  
plants is 93 horse power and we have supplied in each case a 14<sup>1</sup>/<sub>2</sub> x  
13 engine to do the work. By reference to the tabulated formula  
of indicated horse power at different initial pressures of steam  
in the Armington & Sims catalogue, you will find that at 350  
revolutions per minute the maximum capacity of the engines above  
referred to is 202.3 horse power with 100 lbs. pressure.  
In practice we usually employ about 120 lbs. pressure, and, in  
order to satisfactorily and efficiently operate a plant of the  
size of the one in question, the speed of this engine need not  
go over 250. On this account there is so much margin left that we  
consider it unnecessary to furnish a spare engine.

1882-11-20

In relation to the dynamo, the machines which we propose supplying are of the type known as the "Y" machines, and their maximum capacity is 507 lights. By this you will see that the actual capacity of each of these plants is 1,134 lamps, instead of the unit we employ, namely, 1,000. In the case of Norwich the conductors are calculated to carry 1,210 lights, as shown on the estimate, and in the case of Natick they have been calculated at 1,000 lights. In each of these instances the number of lights embraced by our street installation is the maximum number that can possibly be burning at any one time. In order to tax these conductors to their fullest extent it would be necessary that every light in every building in the whole <sup>district</sup> covered by them should be lit and this is an event which will never take place.

In relation to our proposed buildings for central station purposes, if at any time it is desirable to increase the capacity of the plant it can be done by making additions to the buildings, but inasmuch as our experience has proved to us that large and expensive buildings (expensive in comparison to the size of the plant) are derogatory to the acceptance of our estimates, we considered it advisable in each of these cases to design a building just sufficiently large and convenient for the working

secret collection of  
maximum capacity is 200 lights. By this you will  
understand the importance of the above from the fact that the  
maximum capacity of the above from the fact that the  
maximum capacity of the above from the fact that the

8

1883-11-20

1883-11-20

3

of the plants we proposed to install at Norwich and Natick.

If in either case the local people, with whom we have to deal,  
desire a larger building erected, we will furnish plans and esti-  
mates for it.

Trusting that this explanation will satisfy you on the  
points in question, we are,

Very truly yours,

The T. A. Edison Constr. Dept.

By



1883-11-20

November 20th. 3

Sydney Horden, Esq.

Boston, Mass.

Dear Sir:-

We beg to return herewith letter and sketch addressed to Mr. Hodgkinson by Mr. D. S. Bates.

In commenting upon the same, we would say that it is impossible for us to prepare such a map as we can estimate from unless we have a chart drawn to scale. We should like to obtain a chart of Webster such as we have described, but we do not feel that we can go to the expense of having a survey made of the town in order to obtain it. As a general thing in places of this size there is a city engineer, and from this gentleman we obtain the chart we require at a cost which has never yet exceeded \$25., even in places of the size of Kansas City. We shall be glad if you can suggest any way in which we can obtain the maps we have asked you for, and trust that you will favor us with an early response to this letter.

Very truly yours,

The A. Edison Constn. Dept.

By



1873-11-20

November 20th.

3

My Dear Mr. Waterhouse:-

I leave here for London on the 11th. December, and shall be glad if you will kindly cable if there are any matters requiring Mr. Edison's <sup>particular</sup> attention prior to my departure, so that I can get them all in shape before I leave.

I thought possibly there might be some documents in connection with the amalgamation scheme requiring his signature, and it would be necessary for me to arrange to have them fixed up on their arrival here before I leave, otherwise they would, in all probability, have to remain over until my return the end of January.

While in London I hope to do myself the very great pleasure of calling on you, and will then give you some idea of the progress of our lighting business in this country.

I remain, My Dear Mr. Waterhouse,

Very faithfully yours,



1893:11-20

November 20th. 3

Messrs. Armington & Sims,

Providence, R. I.

Dear Sirs:-

When you are making shipment of our Newburgh engines, please forward them by the New York & New England Railroad, as we have a special rate on that line which we desire to take advantage of.

Very truly yours,

The T. A. Edison Consth. Dept.

By

A handwritten signature, possibly reading "S. I.", is written over the word "By".

1883-11-20

November 20th. 3

W. S. Andrews, Esq.

Care Edison Electric Illuminating Co.,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 15th. inst., and have ordered the material you required.

In relation to the large copper wire .43 inches diameter, we find that the Ansonia people cannot supply this for about three weeks. We are trying to get it elsewhere, but at this writing cannot tell how successful we may be.

In order to avoid a repetition of the delay which may take place in furnishing you with this material, we would suggest that you send us a statement of wire and other material for inside work such as you think it would be advisable for us to carry in stock. Please let us have this as early as possible, so that there may be no delay when material is required for the balance of the installations now in hand.

Very truly yours,

The T. A. Edison Constr. Dept.

By



November 20th. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

We beg to enclose herewith map of the district of  
Holliston, together with plan of the central station which we  
propose erecting at that point, and wish you to send us information  
at the earliest possible moment in relation to what electrical  
material we will require for the inside of same.

Very truly yours,

Thos. A. Edison Constn. Dept.

By

*A. E. T.*



1893-11-21

November 21st. 3

W. D. Rich, Esq.

Bush House,

Hellofonte, Vienna.

Dear Sir:-

Referring to your arrangements with us as Superintendent of Construction, we beg to advise you that we have credited your account with the amount of \$300, on account of the remuneration to be paid you outside of salary.

Please advise us what disposition you wish made of same.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1913-11-21

November 21st. 3

Colonel Goddard,  
City.

My Dear Colonel Goddard:-

What evening can you spare to go into the  
question of bookkeeping for our local illuminating companies,  
which you so <sup>kindly</sup> promised to do sometime back? What I would like to  
do would be to arrange a meeting with yourself, Hutchinson, Tate  
and myself, and I have no doubt that if you can make an appoint-  
ment that the remainder of us can accomodate ourselves to your  
time.

Very truly yours,

A handwritten signature, possibly 'S. H.', in dark ink.

1583-11-21

November 21st. 3

Messrs. Hale & Wolcott,  
30 Court Street,  
Boston, Mass.

Dear Sirs:-

Referring to the correspondence you have had with  
Mr Lowrey with relation to the suit Welch vs Edison, I beg to  
state that I have been trying to get at the whereabouts of Mr  
Milton Adams. I now learn that he is in the City of Mexico and  
will return to Europe via New York. I shall hope to advise you  
early of his return, so as to enable the necessary examination of  
him to take place in New York.

Very truly yours,

*W. L. Hale*

1883-11-21

*Telegraph*

November 21st.

3

Oliver E. Lyman, Esq.

45 William Street, City.

Dear Sir:-

Referring to your favor of the 15th. inst., I beg to state that I have not written any paper on Underground Tolographic Systems. There is no reason whatever, except on the score of expense, why all wires operating electrical apparatus should not be underground.

Very truly yours,

*John I*

1553-11-21

November 21st.

3

Compagnie Continentale Edison,

Paris, France.

Dear Sirs:-

Referring to your favor of the 15th. October, I understand that the papers in the Austrian suit have been sent forward to you sometime back.

Very truly yours,

*Fuer*  
*I*

1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Yours of the 30th. inst. to hand.

We yesterday ordered to be shipped to you some marine  
glue from the Central Station.

I cannot say at this moment when Conant will go to  
Lawrence. I am trying to get Leonard from Brockton to go there,  
but I do not know, however, whether they can spare him from  
Brockton yet.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1783-11-21

November 21st, 18

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to your bill of the 20th. inst. for one No. 32, 8 1/2 x 10 engine, I beg to notify you that we do not propose at present to place the amount of the bill in question to your credit, inasmuch as we are not at all satisfied that the trouble with the engine at Shamokin is the fault of our people there. If the cause of the failure of the engine is owing to the fault in the engine itself, we shall not expect to pay for a new engine being sent to Shamokin. Pending the settlement of this matter we will hold the bill.

Very truly yours,

*J. H. I.*

1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Kans.

Dear Sir:-

Referring to your favor of the 19th. inst., we are going to have Crowder test the sulphate of zinc such as sent to Lawrence. We may remark that we ordered exactly the same as that used by the Edison Electric Illuminating Company's down town station.

Very truly yours,

Thos. A. Edison Constn. Dept.

By





1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I have your favor of the 20th. inst. as to short postage on the map sent you. I feel very much annoyed that such a blunder should have occurred in my office. Under separate cover the maps have been forwarded to you to-day.

I have written Perry to-day stating that we will pay him \$12. per week and his travelling expenses when ordered from one town to another. I think this will please him to start on.

The gentleman, whom I propose to send to Fall river, will leave here immediately we have a telegram from you on the subject.

Very truly yours,

Thos. A. Edison Constr. Dept.

By



1883-11-21

November 21st. 3

Major Flood Page, General Manager,  
Edison's Indian & Colonial Electric Co.,  
4 & 6 Throgmorton Avenue,  
London, E. C. England.

Dear Sir:-

Your favor of the 17th, September came duly to hand.

I have been unable up to this writing to send you the prices of our machines in consequence of the models not having been turned out until quite recently. I now send you tabulated statement which will show you the prices, speed, size &c. of the various machines we are now building. It is very difficult to get up a sample installation such as you ask for, and I think you would do better to draw on the experience of the London Company in this connection.

Very truly yours,

*Tate*

1883-11-21

November 21st, 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Your various letters as to Tiffin have duly come to hand.

We have delayed sending a wireman to Tiffin in order to try and avail ourselves of a cheaper form of wiring, which we have not been able to do up to this writing as it has not been accepted by the Board of Fire Underwriters. They have, however, the matter under advisement and promise to consider it and either refuse or accept our new form of wire. Meantime we have decided to send our wireman to Tiffin, and hope to be able to despatch him in the course of about three days. We must confess that we think you are in undue haste to get the ~~houses~~<sup>necessity</sup> ~~wired~~ in Tiffin, and we fail to see the ~~necessity~~ for your extreme anxiety in relation to the matter. Our work at Tiffin will not be interfered with by the frost.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ry



1893-11-21

November 21st.

3

Societe D'Appareillage Electrique,

2 Boulevard du Theatre,

Geneve, Switzerland.

Dear Sirs:-

We have your favor of the 18th, October,

We hope to send you in the course of a week or so  
drawings of our 25, 50, 200 and 300 light dynamos.

We send you herewith statement of the speed and size of  
pulley of each of our machines we are now building, together with  
prices at which we are prepared to ship them F.O.B. New York City.  
We are prepared to take any orders from you and construct machines  
and undertake to ship same about twenty (20) or thirty (30) days  
after receipt of order. If your orders are small it is highly  
probable that we would be able to ship <sup>immediately</sup> ~~immediately~~ on receipt of  
order. The reason that the catalogue of the Edison Company for  
Isolated Lighting contains so little about dynamos is that it was  
issued at a time when my experiments in changing over our machines  
rendered it impossible for the Isolated Company to get at suffic-  
ient data to enable them to give proper information about the

1888  
1893-11-21

2

mos.

The Electric Tube Company does not publish any catalogue. I will, however, obtain from them a pricelist and forward it to you in the course of a day or so.

The other inquiries contained in your letter shall receive my attention within the next week, and I will endeavor to answer you fully in relation thereto.

Very truly yours,

*Zak*  
9

Enclosure.

1883-11-21

November 21st. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am in receipt of your favor of the 16th. inst. covering contract between myself and the Bellefonte Company for the installation of an electric light plant in Bellefonte. I have also the draft of the President drawn in my favor on the Secretary of the Company. I cannot act on this matter until I get a copy of the estimate as amended. Immediately I get this I will communicate with the Members of the Bellefonte Company in relation to the matter. Meantime our work will be pushed ahead. I am expecting that Mr. Rich will be in Bellefonte either to-morrow or the next day.

Very truly yours,

*Shaw*

1883 11-21

November 21st.

3

Societe D'Appareillago Electrique,  
8 Boulevard du Theatre,  
Geneve, Switzerland.

Dear Sirs:-

Referring to your favor of the 18th. October, I beg  
to state that the contract with Messrs. Siemens & Halske refers  
alone to Germany. It is made between the Societe Electrique  
Edison of Paris and a Berlin Syndicate. I cannot understand how  
Messrs. Siemens & Halske can inter~~pose~~ with your business, as they  
have no rights whatever outside of Germany. I am now in course of  
negotiation with my Paris Company with a view to getting better  
protection of our mutual interests in Switzerland. The competi-  
tion which the Paris Company have entered into against your Com-  
pany's sales is entirely unauthorized by me, and I am doing all  
that is in my power to prevent the same.

Very truly yours,

*L. L.*

1883-11-21

November 21st. 3

G. W. Wilber, Esq.

Hotel Woldmeister,

Atlanta, Ga.

Dear Sir:-

We have your favor of the 17th. inst..

We cannot state exactly where you will go after you get through at Atlanta, but will let you know as soon as possible

Many thanks for your kind wishes in connection with my trip to Europe, but I shall be here for two or three weeks yet.

Very truly yours,

A handwritten signature, likely of the sender, is written in dark ink. It appears to be a stylized name, possibly "S. J." or similar, with a long horizontal stroke extending to the left.



1913-14

November 21st. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to notify you that from this date you will be credited with a salary at the rate of \$5. per day, instead of \$4.50 as heretofore.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883.11.21

November 21st. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Owing to the rapid growth of our business and the possibility of our having quite a large electrical staff, we find it necessary to place someone in control of the electrical part of our central station work. We have decided to give you control of all electrical work in our stations and of the men engaged in such work, whether in fitting up stations or in running same after ~~it~~ <sup>that</sup> has been started. We shall pursue the same course with relation to the interior of the station as that followed for some time past, namely, we shall look to you to communicate to us what <sup>it</sup> is desirable each station should contain electrically, and also how the instruments &c. shall be arranged.

It would seem to us desirable that you should not spend all your time in one place, but you should make such disposition of your men as to enable you to go from place to place and keep a proper oversight of the work.

Mr. Rich, as Superintendent of Construction, is now building Fall River, Mt. Carmel, Bellefonte, Hazleton, Tiffin and

Newburgh stations. Immediately these stations are in condition to have the electrical part of the work done it will be necessary for you to start same. You should also be on hand to start the stations when we are ready to light up.

At present our staff is as follows, Mr. Conant, Mr. Doub-  
Today, Mr. Leonard, Mr. Oakley and, as my last letter indicates to  
you, Mr. Perry. These gentlemen will be under your direction, and  
we shall look to you to state exactly what disposition should be  
made of them.

We think it would be well, immediately you have started  
on Fall River, for you to repair to New York and consult with us  
in relation to the matters contained in this letter.

Of course we shall look to you to see that your staff  
works in unison with Mr. Rich.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883-11-21

1883-11-21

November 21st.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Your favor of the 4th. came to hand this morning.

Edison states that he thinks very well of the idea of a 1000 light wire wound armature.

We have now sent models of the 25 and 50 light machines to Germany. This will give them models for the 25, 50, 100 and 400 light machines. I propose cabling and asking them whether they want model 200 and 300 light machines.

We were all delighted to hear that you thought of coming home. My letter of about two weeks back will have given you full information as to what we are doing here.

*But* I could doubtless sell your Isolated Stoopk at par, ~~by~~ am inclined to cable you asking whether it is necessary to do this in view of Edison's authorization to draw on him for \$1,000. I do not understand now whether you wanted \$1,000. or \$10,000., hope it is the former, as money in the latter amount is very

Chicago letter

Memorandum

3

scarce horeabouts. I do not anticipate that I can get more than par for Isolated stock, it is nominally quoted at 120 to 130, but strictly entre nous I may state that it is a question whether the Isolated Company will pay their dividend this year, because their expenses are something terrible, and it looks very much as if it is the old tale of bad management!

We have not yet been able to get a man to run the Armington and Porter engines, but as soon as we do so will send him forward.

Very truly yours,



1883-11-21

November 21st. 3

M. C. Holknep, Esq. Treas.

Edison Electric Illuminating Co.

Highland National Bank,

Newburgh, N. Y.

Dear Sir:-

We beg to acknowledge receipt <sup>your favor</sup> of the 19th. inst. covering draft for \$0,500., being twenty five per cent due me under the terms of contract dated October 29th. 1883.

My engineer will be in Newburgh to-day to consult with the builders in relation to the building. We are pushing our street mains as quickly as possible, and will commence shipping same sometime this week, and I am in hopes that our men will be in Newburgh to lay the mains sometime next week.

Immediately your building is well under way we can push our work very quickly, as we have the material ordered, and are simply waiting the finishing of the building.

Very truly yours,

AS  
attorney

1583-11-21

November 21st. 3

George P. Miss, Esq. General supt.

Chicago, Ills.

Dear Sir:-

Again referring to your favor of the 14th. inst., I beg to give you below copy of the memorandum received from Mr. E. H. Johnson in relation to the trouble you complain of with the Automatic regulators:-

"I presume this is due to the increased resistance of the magnet coil when heated. The remedy that occurs to me is to occasionally re-adjust the spring. I have not noticed any such action in our own."

Very truly yours,

*J. H. L.*

1893-11-21

November 21st. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I have your favor of the 19th. November, and have the pleasure to enclose you herewith assignment of twelve and one half per cent of my <sup>Contract</sup> ~~agreement~~ with the Edison Electric Illuminating Company of Bellefonte, Penna. I also enclose you copy of the agreement referred to for your files.

You omitted to send me the formal order for the wire, which heretofore I have been in the habit of executing.

Very truly yours,

*JAC*  
*J*

Enclosure.



1883-11-21

November 21st. 3

G. H. Cooke, Esq.

Post Office,

Grand Haven, Mich.

Dear Sir:-

After you get through at Madison, Wis. please canvass Grand Haven, Miles, Battle Creek and Tpsilanti, all in Michigan. It would be as well for you to communicate with Mr John R. Markle, P. O. Box 97, Detroit, Mich., as it is for his account that we are making the canvasses. Please canvass these towns in the order <sup>are</sup> they named.

Very truly yours,



1883-11-21

November 21st. 3

W. H. Dwyer, Jr. Esq. Treas.  
Edison Electric Illg. Co.  
Fall River, Mass.

Dear Sir:-

Your letters and telegrams as to sending Greenfield on to Fall River came duly to hand, and we wired you last night that Fitch would leave this evening with one man and suggesting that you had better look up other men in the meantime. Of course the shorter the time that you keep Mr. Fitch in Fall River, the less will be the expense to yourself. I do not know exactly what you will have to pay for his services, but I presume it will be a small amount <sup>over</sup> ~~on~~ ordinary wages and board. However, I shall charge you whatever Greenfield charges me.

I am strongly of the opinion that your Company should have nothing to do with the wiring, that is so far as the consumers are concerned. You know my views fully on this subject, and I will therefore not trouble you individually.

Very truly yours,

Thomas Edison Constn. Dept.

By



1883-11-22

November 22nd. 3

Paul D. Dyer, Esq.

101 Carondelet Street,

New Orleans, La.

Dear Sir:-

I enclose you herewith information as to part of the  
territory that it is desired should be canvassed in New Orleans.  
Of course you will canvass considerably outside of the area named.

Yours truly,

Handwritten signature, possibly "S. J. 3.", with a large "S" and "J" and a small "3" below.

1883-11-20

November 22nd, 3

H. M. Doubleday, Esq.

Care Edison Electric Illg. Co.

Lawrence, Mass.

Dear Sir:-

I send you herewith a book of questions and answers, and would draw your attention to the fact that it is marked for private use only. You must not show this book to anybody whatever without the permission of this office. I also return you your answers, on which you will notice a few remarks by Mr. Edison. He says that the answers are very good, and that you can post up with the further assistance of the book sent you to-day, and Mr. Andrews. Please return your answers when you have looked over Mr. Edison's remarks.

Very Truly Yours,

Thos. A. Edison Constn. Dept.

By



1883-23

Danbury

November 22nd. 3

Messrs. Harris & Robinson,  
Trust Co's Building,  
Hartford, Conn.

Dear Sirs:-

We have your favor of the 14th, inst.

We were unable to answer it by return mail as the writer was out of town. You will find in the Danbury estimate under the head of "Starting Station" 250 lamps are put in at sixty cents each, but since the estimate was made the price has been reduced to fifty cents. The customers do not pay for the lamps. They are paid for by the Company, just the same as the Company would pay for coal in the running expenses. In fact lamps are part of the running expenses. The local company will have to pay fifty cents for the lamps, which is the same price as the Lamp Factory sells them to all its customers. The lamps you refer to are the sixteen candle lamps, and these are sold at forty cents. Our lamps will average upwards of 600 hours life, but no absolute guarantee is given as to this. As a matter of fact they average considerably more than 600 hours, and we set this time of burning in order to be within the mark.

We sent you yesterday all the information we have about  
Brockton.

3  
JAMES T. EDISON

1883-11-22

Received

1883-11-22

2

The Newburgh Company was formed sometime ago and the plant is now being erected. Within the last week we have closed contracts for Bellefonte, Penna. 800 lights, Mt. Carmel, Penna. 500 lights, Hazleton, Penna. 1,000 lights, and these plants are now being erected. Besides these we are running a plant at Tiffin Ohio for 1,000 lights. We have in all six central stations now in the course of construction, besides Sunbury, Shamokin, Lawrence and Brockton, which have been running some considerable time now.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883-11-22

November 22nd, 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Friend Hughes:-

Again referring to your favor of the 15th. inst.,

Mr Edison says that he does not like the idea of lighting Rondout  
and Kingston in the way you <sup>state</sup> ~~suggest~~. I would suggest that talk  
to Mr Edison about the matter the next time you see him.

Very truly yours,

Thos. A. Edison Constr. Dept.

By 

1883-11-20

*Bergmann*

November 23rd.

3

Messrs. Bergmann & Co.

253 Avenue B, City.

Dear Sirs:-

Have you received from Milan two sockets? We have a letter from them in which the following occurs:-

"We have sent to Bergmann & Co., upon the suggestion of Mr. Bailey, two sockets out of the 500 of the last shipment. We have found them so roughly made, besides the general defects of the new model of key sockets, that we will not take them without a reduction in price of not less than fifty per cent."

Very truly yours,





1893-11-22

November 22nd. 1893.

David Wilson, Esq.

645 West 33rd. Street, City.

Dear Sir:-

Will you please make one set of zincs for the 200  
light machine of the metal you would propose using, providing we  
gave you orders for our zinc castings at 5 <sup>3</sup> 4 cents per pound.  
What we want to get at is the quality of the metal, how we can  
work it and its tensile strength.

Please let us have this as early as possible.

I enclose you formal order to cover it.

Very truly yours,

The Edison Machine Works,

By 

1883-11-22

November 22nd:

3

Domas Barnes, Esq.

20 Park Row, City.

Dear Sir:-

Referring to your favor of the 7th. inst., my opinion on the application of electricity to cars is that the motor should in most cases be placed directly under the cars, and that for small roads, such as street railroads, elevated railroads in New York or the underground railroad in London, electric locomotion is the coming method. I think that after one road has been operated in this country electrically, so as to gain actual experience and a chance to surmount what difficulties and objections may be found, that success would be comparatively easy.

Very truly yours,

*Tak*  
*9*

1883-11-22

November 22nd, 1883

J. H. Corry, Esq.

Lock Box 50,

Elgin, Ills.

Dear Sir:-

Referring to your favor of the 10th. inst., there is no substance that can be used in the place of carbon pencils for an are light that will not wear away.

Very truly yours,



1873-11-22

November 22nd. 3

James Harris, Esq. Secty.

Bellefonte, Pa.

Dear Sir:-

I have your letter of yesterday's date, together with plan of building. The size of building you give us is 28 x 70. The size of building we have allowed for is 20 x 40. The extra amount telegraphed to Mr. Shaw for which we increased the 500 light plant to 600 lights <sup>was</sup> entirely approximate, and on <sup>revising</sup> ~~revising~~ it we find that we can erect a brick building for you of 20 x 40, instead of the frame building, as called for in the estimate. <sup>above</sup> We had no idea when Mr. Shaw telegraphed for the additional estimate that he proposed to close a contract on the basis of it, or we should have written a letter reducing it by several hundred dollars. We cannot put a building up of the size that you name for the price given in our estimate. We understood from Mr. Shaw that this whole matter was settled, and that our plans and estimates were accepted, and we have consequently instructed our Superintendent, Mr. Rich, to build the building 20 x 40, and have this day telegraphed him to construct a brick building instead of a frame building. The building is so arranged that at any time it may be thought advisable to increase your plant it can be done

1883-11-22

2

by enlarging the building economically.

Mr Rich is now in Bellefonte and will no doubt see you about these various matters, but his instructions to put up a building 20 x 40 are absolute, and if you require any alterations, I would request you to advise me of it immediately, but I would warn you that if such alteration is requisite it will very materially interfere with the installation of the plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

1893-11-22

November 22nd. 1893.

Davenport, Treney & Co.

Jersey City, N. J.

Dear Sirs:-

Referring to my interview with your Mr. Davenport this  
A. M., I beg to inform you that our Superintendent, Mr. Saldan,  
will call on you and give you an order for one zinc base as a  
sample. I wish to get at the quality of the metal, how we can  
work it and its tensile strength. After we have worked your  
castings in our shop, we will then settle about giving you an  
order. I am compelled to pursue this course of a bid I have from  
the man who is now making our zinc bases.

Very truly yours,

The Edison Machine Works,

By 

Very truly yours,

November 23rd.

3

S. Elliott, Esq.

Designer & Builder of Special machinery.

Newton, Mass.

Dear Sir:-

I have your favor of the 17th. inst. Mr. Jackson worked for me a year or more, and I believe him to be a thoroughly first class mechanic, and especially good on experimental work. He is possibly rather proud of his ability, perhaps too much so, but still I found it very easy to get along with him. I always found him sober and reliable.

Very truly yours,

*Wm*  
*I*

1883-11-20

November 22nd. 83

Thomas P. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

Will you kindly ask Mr. Floyd if he would undertake wiring jobs at Mt. Carmel and Bellefonte, providing we can get the work for him. We might find it convenient to use his men at those places, <sup>please</sup> providing he is willing to give attention to the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 



1893-11-22

November 22nd. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Your favor of the 19th. inst. came duly to hand.

We cannot understand that there should be trouble with either the marine glue or sulphate of zinc, as we order exactly what is used at the Central Station. We are, however, arranging to have the sulphate of zinc tested by Crower at Goerck Street, and with relation to the marine glue, Mr. Chinnock has promised to ship some to you. I note what you say about clear glass bottles and will attend to it in the future. I will have the fixtures you refer to sent on. I will hurry the various material you ask for and I can assure you that we invariably do this anyway.

Very truly yours,

Thos. A. Edison Constr. Dept.

By



1883-11-22

Personal.

November 22nd, 83

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I wish you would pay particular attention to the movements of Leonard. Judging from the postmark on his letters he must spend a good deal of time on Boston. Certainly after you leave Lawrence he should stay there at nights and in the day time. The fact is I do not feel very much confidence in him, and I want to know whether I am justified in my opinion or not.

Very truly yours,

89

1883-11-22

November 22nd.

W. D. Rich, Esq.

Dash House,

Hellefonte, Penna.

Dear Sir:-

I beg to enclose you letter from Messrs. James Harris & Co. giving prices of material at Hellefonte.

I telegraphed you this A. M. instructing you to put up a brick building in place of the frame building originally contemplated at Hellefonte. I also enclose you a blue print of the Hellefonte station.

I have a letter from James Harris, the Secretary of the Hellefonte Company this morning, in which he mildly suggests that we put up a brick building 20 X 70 for the same price as the one we proposed putting up. I have written him that it was my understanding that the estimate and arrangement of the station had been accepted, and that you were instructed to put up the building 20 X 40, and I have suggested that he should see you about the matter. What they want to get is an alleyway down the side of their property. This you can arrange by having the front of the building 20 feet. Of course if Mr. Harris objects to putting up the present building, you had better telegraph for instructions.

1883-11-22

2

I am going to send a wireman to Tiffin Saturday or Sunday night. All your material is ordered and well under way.

The Fall River steam piping was shipped from Philadelphia yesterday

I wired you this A. M. stating that there was trouble at Brockton, owing to the leakage of steam piping at the joints.

I trust you will be able to send someone to fix this prior to your return East.

If you propose coming to New York on your way from Penna. I will meet you at the office anytime except Saturday evening.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

Enclosure.

1973-11-22

November 22nd. 3

John T. Perry, Esq.

care Edison Electric Illg. Co.

Lawrence, Mass.

Dear Sir:-

I beg to advise you that from this date you will be credited with a salary at the rate of \$125 per week, and that should we require you to leave Lawrence to go elsewhere, we will pay your travelling expenses. As soon as you become more valuable in our work we shall hope to pay you better, but meantime the salary named above will cover your expenses of boarding, and inasmuch as we pay your travelling expenses, you will no longer be under any personal expense, which you were under in learning our work. Hoping this will prove satisfactory to you, I remain,

Very truly yours,

Thos. A. Edison Constn. Dept.

By 

1883-11-22

November 22nd.

3

Societe Industrielle et Commerciale Edison,  
Ivry-sur-Seine, France.

Dear Sirs:-

Referring to your favor of the 12th. October, I beg to  
give you below prices of the various Arrington & Sims engines  
purchased by us:-

1	14 2 x 13 engine with two 30"	
	driving pulleys.....	\$ 1,950.00
1	14 2 x 13 engine without pulleys.	1,750.00
	13 x 13 engine.....	1,900.00
1	U 2 x 10 engine.....	775.00
1	G 2 x 8 engine.....	530.00

I presume the ten per cent royalty should be paid on the  
prices named.

Very truly yours,

*Edison*

1773-11-22

November 22nd; 3

George W. Soren, Esq.

care Porter, Lowrey, Soren & Stone,

3 Broad Street, City.

Dear Sir:-

I beg to enclose you herewith check for \$381.03, being balance of the amount due Judge Porter, Mr. Stone and yourself in connection with the sale of the Colonial Light Patents to Edison's Indian & Colonial Electric Company.

Will you please acknowledge receipt, and oblige,

Very truly yours,

A handwritten signature, possibly "S. J.", is written over the closing "Very truly yours,".

1883-11-22

November 22nd. 3

F. J. Sprague, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

I have your favor of the 18th. inst., for which accept my thanks.

I think you will find that in other stations arrangements have been made to put the indicators as far away from the dynamos as possible.

Your remarks about steam piping shall have the attention of Mr. Rich.

With relation to Fall River, we have work ~~xxxx~~ for you here in New York, when you get through at Brockton, in which you can be more valuable to us than at Fall River. We regret not being able to comply with your request in this connection.

We will send you the information about the spare dynamos in a day or two. It will, however, be some little time before the Brockton Company can get small machines.

Very truly yours,

Thos. A. Edison Constn. Dept.

By

59



1893-11-22

November 22nd, 3

I. W. Serrall, Esq.

140 Nassau Street, City.

Dear Sir:-

I have your favor of the 15th. inst., and in reply beg to state that I do not see that it is necessary to add anything to the arguments in interferences A to I and No.1. The argument seems to cover everything and to be quite full enough.

Very truly yours,

*Jas*  
*I*

1893-11-22

November 22nd. 3

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

I have your favor of the 17th. inst., but I have been unable to answer it until this morning, as I was not at all sure when I should be able to ship the machines to you. I am hoping now to be able to ship the machines sometime next week. I fully recognize the importance of your having them and I will not keep you waiting one moment longer than I can help.

Very truly yours,

Thos. A. Edison Constn. Dept.

By 

1883-11-22

November 22nd. 3

R. N. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 10th. inst., I have answered you elsewhere stating that I hope to be able to send you the machines for your central station sometime next week.

The 200 and 300 light machines which you require for isolated business you can have about ten days or two weeks after the machines are sent you for your central station.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1893-11-23

Menlo Park - Gen.

November 23rd.

3

N. Stilwell, Esq.

Menlo Park, N. J.

Dear Sir:-

Will you please have the doors of the office, laboratory, machine shops and other buildings, which it is not absolutely necessary to have access to, nailed up, and a fresh lock put on the doors that it is necessary to use. I should think the simplest way to do is to have the same lock put on all the doors you require to open, and have one key to open the whole of them.

However, this is a matter you can decide yourself.

While Alfred Swanson is working for us, he is entitled to have access to the laboratory, machine shop and engine room, but after he gets through his work of course he should give up the key. Perhaps the better would be for you to open the door for him every day and lock it up at night, but this is a matter on which you can suit your own convenience. What we wish to accomplish is to prevent all unauthorized people from getting into the laboratory.

Yours truly,



1873-11-23

November 23rd.

3

Messrs. Bergmann & Co.

252 Avenue B, City.

Dear Sirs:-

Will you please have a test made of the battery cell  
that we sent down to you sometime ago.

I enclose you patent. Please return the patent with  
report as to test. We want this immediately.

Yours truly,



Enclosure.

1883-11-23

Battery, St.

November 23rd. 3

A. A. Cowles, Esq.

19 Cliff Street, City.

Dear Sir:-

I am promised a test of the battery in the course of a day or so, and will send it down to you immediately we get it.

Very truly yours,

AS

1883-11-23

*Sunbury*

November 23rd. 3

Frank S. Marr, Esq. Treas.

Edison Elec. Illuminating Co.

Sunbury, Penna.

Dear Sir:-

Referring to your favor of the 18th. inst., I beg to return you herewith the plan of Sunbury indicating where you want the extension of your lines made. Will you please mark on the plan the maximum number of lights for use on this extension and their position, so that we can calculate what size the conductors should be.

Do I understand that you are wanting some of the new kind of wire. If so, I will send it to you, as I have some in stock.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-23

November 23rd. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

Since writing to you this morning your letter of the 15th. has come before us. It has been mislaid and we must apologize for the apparent neglect in not replying to you before.

The price of the new form of cable is forty two cents a pound. I have quite some of it in stock, which I ordered in order to get the first lot made. We are getting excellent results from it, and think it is the best thing you can use. If you will give us some idea of the size of the wire you want, we can then send you sufficient cable for your purpose.

Again apologizing to you for our neglect yours above referred to, we remain,

Very truly yours,

Thomas A. Edison Constrn. Dept.

By





1883-11-23

November 23rd. 3

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

When I was in Brockton I arranged with you to have a photograph made of the building. Has this been done? If not, when will it be done?

Very truly yours,

A handwritten signature, possibly reading "S. J.", is written in dark ink.

1883-11-23

November 23rd, '83

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I send you herewith duplicate blue prints of the stations at Bellefonte, Mt. Carmel, Hazleton and Tiffin, and shall be glad if you will sketch on same the disposition of the switches &c., as suggested in yours of the 22nd. For the future I will send two copies of blue prints of the central stations.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-11-23

November 23rd, 83

Spencer Borden, Esq.

Boston, Mass.

Dear Sir:-

Referring to your favor of the 21st. inst., we are very much surprised that you should have altered our estimate for Natick. If you have no objection we would prefer that you should leave us this privilege. We consider that the Norwich estimate is complete in itself and does not require any alteration. There is a margin of engine capacity and a margin in the dynamos, we do not think it at all necessary to put in a spare.

You must remember that we are putting for a 1,000 light plant exactly the same engine that we use for the 1,000, and we also send to the station extra parts of such machinery that it is possible will break down. We do not think that we should leave it to the local people to say what they want in the way of a plant. We consider our experience in this connection a great deal better than theirs.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-11-23

November 23rd. 3

Judge J. W. Dunn,

Tiffin, Ohio.

Dear Sir:-

We have your favor of the 19th. inst.

Our material for wiring has been shipped to-day, and our  
Mr Isaac Walker, who has charge of the inside wiring, will be in  
Tiffin in all probability Tuesday or Wednesday next to start the  
work there. We think that you will find that that will be in  
plenty of time for the starting of the station.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

November 23rd. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 21st. inst, and will take  
your advice and keep a supply of chemicals on hand.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-23

November 23rd. 3

A. Stuart, Esq. Secty.  
Cincinnati, Ohio.

Dear Sir:-

Referring to your favor of the 18th. inst., I certainly think that efforts should be made to put plants in some of the towns already canvassed, before anything is done with relation to canvassing other towns. The expense of the work is considerable and I should not care to go ahead making any more canvasses unless Major Eaton instructs me to do so.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1853-11-23

November 23rd. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

I do not at all like your Rondout-Kingston scheme.

I do not think that we have got far enough ahead to follow it out.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1883-11-23

November 23rd. 3.

C. E. Chinneck, Esq.

257 Pearl Street, City.

My Dear Chinneck:-

This will introduce to you Mr. A. S. Bovis, who wants to get as much information as possible in the course of a few days at the Central Station. Mr. Bovis is going out for us in connection with our central station construction work, and any facilities you can give him to post himself will confer a favor upon,

Very truly yours,

A handwritten signature, likely of the sender, written in dark ink. It appears to be a stylized name, possibly "S. L." or similar, with a large initial letter.



1883-11-24

November 24th. 3

Major S. B. Eaton, President.

65 Fifth Avenue, City.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 2nd. inst. instructing us to make canvasses and estimates for Holyoke and New Bedford, Mass.

We hope to be able to send a canvasser to commence this work within a few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-24

November 24th.

Major S. B. Eaton, Prest.

65 Fifth Avenue, City.

Dear Sir:-

We beg to acknowledge receipt of your favor of the  
23rd. inst. instructing us to canvass the following towns in  
Pennsylvania:-

Wellsborough, Hauch Chunk, Pottsville, Pottstown, Lancaster,  
Lewisburgh, Milton, York, Union City, Wilkesbarre, Scranton.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-24

November 24th. 3

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We are in receipt of a letter from Messrs. Bergmann & Co., in which they quote the following extract from a letter received by them from you:-

"Under contract 250 temporary fixtures, shades, holders and sockets were to be furnished. Only 240 were shipped or received by us."

We have before us at the present moment the statement which was presented to our Mr Insull, when he went to Shamokin to settle our affairs there, and which he was told specified the material received on account of the contract between us, and under the heading of "temporary fixtures" you enter only 200 and give us credit for that number. In your letter to Messrs. Bergmann & Co. you now acknowledge having received 240, and ask for a credit for 10 temporary fixtures, inasmuch as the contract called for 250. We might here state that we hold the receipt of Mr W. H. Douty, the President of your Company, for 350 temporary fixtures, sockets and shades complete, but inasmuch as you have only paid for 200, notwithstanding your statement to Messrs. Bergmann & Co. that you

1883-11-24

2

Received 2240, we cannot understand why it is that you ask us for a credit for 10 more. Although we accepted your statement of the material received as being correct, it would not appear to be the case, judging from the above; in the instance we have quoted we are satisfied that it is not.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

ROY

1883-11-24

November 24th. 3

Messrs. Babcock & Wilcox,

30 Cortlandt Street, City.

Dear Sirs:-

In making shipment of the boilers you have on hand for us at the present time, will you please forward them as follows:-

Hazleton from Elizabethport, via Philadelphia & Reading, Bellefonte, via Pennsylvania R. R.

We have secured special rates over these lines.

Are you putting the names of the different Companies on these boilers, as usual? If you have not done so in the case of the boilers already shipped, will you kindly put the names of the Companies on the boiler you have on hand. For instance, the Bellefonte boiler should bear the name "Edison Electric Illuminating Company of Bellefonte", and the others should have the name of the Company in the same way, according to the town it is intended for.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-11-24

November 24th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

In relation to the 14 3 x 38 engine for Newburgh, which will be ready for shipment within a few days, will you please send it to Hazleton, Penna. instead. The Newburgh station will not be ready for some time, and we do not wish to be obliged to store more material in Newburgh than is necessary, and we can use this engine at Hazleton as soon as it is ready. Please send it via the New York & New England, Steamer "Maryland" and Lehigh Valley R. R., as we have secured special rates on this route, which we wish to take advantage of.

We have secured special rates to Bellefonte, Penna. via New York & New England and Penna. R. R., and when you are shipping to that point, please take those routes.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *S.A.*

1883-11-27

November 27th. 3

James Harris, Esq. Secty.

Sellefonte, Pa.

Dear Sir:-

I shall be glad if you will give me an order for  
say 240 lamps, so as to have lamps on hand at starting the station.  
These lamps we shall bill to you at exactly the same price as if  
they were bought from the Lamp Factory direct, namely, 50 cents,  
and the only object I have in asking for the order is so that we  
shall have the right to order lamps forward at such time I may  
find it necessary when they are required.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-27

November 27th. 3

Mr. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

We have your favor of the 23rd. November.

We have put some of the lamps with the wire in the center upon a test at 64 candles, and find that they have just as good life as the regular lamps, which proves that the platinum practically makes no difference.

Bergmann is getting along nicely with the twelve indicators, and we will send some forward to you as soon as they are completed.

Very truly yours,

Thomas A. Edison Constn. Dept.

By





1883-11-27

November 27

J. H. Andrews, Esq.

Dear Sir:-

Referring to yours of the 22nd. inst. you  
ask by conferring with Mr. Wick himself arrange to have the  
feeders brought into a central station at points suitable to your-  
self. I am taking up the question of channels &c. and am trying  
to make them a little better than they have been.

Very truly yours,

1883-11-27

November 27th. 8

W. S. Andrews, Esq.

Dear Sir:-

Referring to your favor of the 24th.

Rev., I think the object you speak of, namely, being advised of  
the progress of Mr. Rich's work, will be best done by your communi-  
cating with him.

Very truly yours,

1893-11-27

November 27th, 1893

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 22nd. inst. we have talked over with Mr. Edison what your title should be, and would suggest "Chief Electrical Engineer." How does that strike you? It is better than "Electrician". You know electricians are in no great repute with Mr. Edison as a rule.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-27

November 27th.

3

Mr. W. S. Lear.

Sunbury, Pa.

Dear Sir:-

Referring to yours of the 23rd. inst., are there no other lights on the extension you propose putting up besides the 50 mentioned at the end of extension. Shall we only estimate for 150 or calculate our copper so as to carry more lights in the future? If so, state the probable number.

Very truly yours,

1883-11-27

November 27th. 3

H. C. Rollins, Esq. Treas.

Edison Electric Illuminating Co.

Highland National Bank,

Newburgh, N. Y.

Dear Sir:-

We enclose herewith revised plan for the central station building to be erected at Newburgh, and we would impress upon you very strongly the necessity of having the work done in strict accordance with this plan. Any deviation from it, however slight, it may appear to you, may seriously interfere with our arrangements, and we will here say that we will not hold ourselves responsible for any defect in the internal arrangement of the station, should the same be caused from our plans not having been accurately carried out. We write you thus strongly on the subject, as with us it is a vital point, and trusting that you will see that our requirements are met by your contractors, we are,

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

Indian + Colonial

1893-11-28

November 28th.

3

Major Flood Page, General Manager,

Edison's Indian & Colonial Electric Co.

4 & 6 Throgmorton Avenue,

London, E. C. England.

Dear Sir:-

We have a letter from Messrs. Drexel, Morgan & Co. asking for further documents, and which we have handed to them for transmission to London.

We cabled you yesterday as follows:-

"Tube Company supplied material absolute price contract.

You should remit immediately comply our understanding! Extremely surprised your delay. Will mail details!"

The Tube Company's material was bought by us on an absolute contract, and they are not in the habit of supplying us with ~~an absolute price~~ cost, and it has been our rule to accept their bills right along. Where an absolute figure had been given on a certain amount of work, they accommodated us by giving us a detailed bill, which, as above stated, has been sent forward.

We cannot consider this, however, a sufficient justifi-

Received  
1893-11-28  
1893-11-28

1893-11-28

2

ation for your holding your remittance. We bought this material for you, paid for it and shipped it without any profit whatever to ourselves, and solely as a courtesy to you, and hence our request for an immediate remittance.

My Private Secretary, Mr Insull, will be in London about the 20th. December, and will call upon you, and any information you may desire as to our business he will be able to give you.

Very truly yours,

1883-11-28

November 24th. 3

W. H. Doolley Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 24th. inst., I cannot tell whether the small pair of dynamos will be ready by the time you mention or not. Even if they were I think that we should run the large engine. In fact we should run both of them, <sup>alternately</sup> as we should want to get the whole of the plant in good running order before the period is up for us to hand it over to your Company. I cannot see where the great waste of power comes in in running the large engine, and even if such were the case, I would remind you that ~~this~~ is part of our contract to run the station for thirty days, and it can therefore be hardly a matter of interest to your Company whether we have to run the large or small engines during that period. *as the coal consumed will be at our expense*

Very truly yours,

Thomas A. Edison Constn. Dept.

By





1853-11-28

November 28th. 3

W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

Referring to your favor of the 24th. inst., we beg to state that the books and forms which we propose furnishing have been delayed in consequence of the absence from the city of Col. Coddard, with whom we are very anxious to confer before settling on the final forms. He has promised to go into it at the first opportunity, but as he is going to do it as a favor to us, we of course cannot press him to do so at any time that it might inconvenience him.

I think that the best thing that you can do is to go ahead and use your judgement in the matter, and when we get our forms out we will give you the option of taking them or not.

With relation to Mr. Sprague, I find that I shall require him in New York. When the small dynamos are ready we can send some one, probably from Fall River, to put them up for you.

I cannot give you at the moment the figures as to the proposed exchange, but will do so as early as possible.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1 PF3-11-28

November 28th. 3

G. W. Wilbur, Esq.

Hotel Weinmeister,  
Atlanta, Ga.

Dear Sir:-

We have your favor of the 25th. inst., and are glad to hear of the progress you are making.

I have sent a check to Mr. Magnus V. Miles as requested, and have written to Lyons that if he cares to come on here, I can get him at work. I will advise you later as to where you are to go next.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-25

November 28th. 3

Theodore N. Vail, Esq., General Manager,  
American Bell Telephone Co.  
95 Milk Street,  
Boston, Mass.

Dear Sir:-

I shall be glad if you will send me a specimen of the Inertia Carbon Transmitter you now issue, having the new form of lettering with "Edison Carbon Telephone" across the box. Be kind enough to attach to the transmitter a certificate stating that all your transmitters are now issued in that form.

I wish to use this in London in negotiating with the United Telephone Company, who I am anxious should follow the same course as that adopted by your Company. If you can let me have this before December 8th., I shall feel obliged, as I wish to send it to London by the hand of my Private Secretary, who sails immediately after that date.

Very truly yours,

*J. J.*

1883  
November 20th. 3

"Cashier,"

Germania Bank,

215 Bowery, City.

Dear Sir:-

I enclose you herewith the information requested as to the Edison Electric Light Co., The Edison Co. for Isolated Lighting and the Edison Electric Illuminating Co. of New York.

The Light Co. has a controlling interest in the Isolated Co., owning <sup>51</sup>100 of the Isolated Co's stock. The Light Co. has also a 25 per cent interest in the Illuminating Co.

The paper that we have submitted to you for discount, and which you have kindly obliged us by so doing, was that of the Edison Co. for Isolated Lighting. This Company's business is to install electric light plants in mills and factories, and it obtains its license to do so from the Edison Electric Light Co., which controls it.

The Edison Electric Illuminating Co. of New York supplies light on a meter in the district bordered by Wall, Nassau, Spruce Streets and the East River.

Mr. Edison's relations to these companies is that of manufacturer. He supplies them with dynamo electric machines, lamps

1183-10-28

2

and electrical sundries. Our main customer is the Edison Co. for Isolated Lighting, who take a large amount of material from us right along. The Edison Electric Illuminating Co. has its plant erected, and consequently buys very little from us at the present time. The Edison Electric Light Co. is simply a patent owning organization, who do nothing beyond selling licenses to use their patents, and they also defray the cost of Mr. Edison's experiments in connection with any improvements or inventions he may get up on his present system of electric lighting.

Besides the above Mr. Edison acts as a general contractor for the installation of electric light central station plants.

Our modus operandi is as follows:-

A company formed in some town gets its license from the Edison Electric Light Co., the local company requires a plant erected, in order to enter into the business of selling light, or in other words, to compete with the local gas company for business, and Mr. Edison himself undertakes the contract to erect a plant for such a local company at a given contract price. He does this work by permission of the Edison Electric Light Co., who are the sole owners of the patents.

Any further information that I can give you I shall be glad to or if you care to make an appointment, I will come down to

1883-11-28

3

see you and explain matters further to you, as it is our wish that you should be fully posted in relation to the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-11-28

November 28th. 3

Messrs. Harris & Robinson, Es

Hartford, Conn.

Dear Sirs:-

Referring to your favor of the 20th. inst., I do not  
at all believe in the scheme you propose. My experience is that  
if we depend upon other peoples boilers and engines, our lights  
are not satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

James Harris, Esq. Secty.

Pallefonte, Penna.

Dear Sir:-

We beg to confirm the addition of \$200. agreed upon by yourself and our Mr. Rich to be paid us in consideration of increasing the size of the building. Said payment to be in addition to the amount agreed upon in our contract with you for the erection of your central station plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Attorney.



1583-11-28

November 28th. 3

H. Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your two favors of the 24th. inst., which do not explain to us the reason for your wanting to draw \$100. We asked pointedly for an explanation from you, as we wanted to know whether we were in error in your accounts. Will you please let us know.

We must confess we have your new form the use for which we do not understand. If you have any new forms or anything else new, will you please let your ideas flow in the direction of this office and not to Mr. Jenks or any other manager of local companies. We wish to have the privilege of deciding what is the best form to use, and we are very glad to have any suggestions, but we wish to pass upon them before they are communicated outside.

I send you by this mail a book of "Questions & Answers", which may give you a great deal of information. This book is for your own personal use and is not to be shown to anybody.

I shall be glad to have from you such a report as you gave us from Brockton as to the number of lights burning &c. Please send your answers to the questions here.

Very truly yours,

Wm I

1853-11-28

November 28th. 3

C. P. Lyons, Esq.

Center Street,

Dorchester Station,

Boston, Mass.

Dear Sir:-

Mr. C. W. Wilbur informs me that you would like to have a position as canvasser with us. If you care to come on immediately we can send you out to work.

Very truly yours,

Thomas A. Edison Conatn. Det.

By 

1883-11-28

November 28th. 3

Messrs. Marlio & Hull,

P. O. Lock Box 97,

Detroit, Mich.

Dear Sirs:-

We have your favor of the 27th. inst., and in reply, beg to say that we will see that Battle Creek is canvassed after Grand Haven, and will leave Niles out as suggested.

We have been compelled to withdraw Mr. Cooke from your territory temporarily, but he will return there inside of two weeks.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-28

November 28th, 1883.

W. W. Doolley Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have your favor of the 26th. inst., and very much regret that the second 50 light machine has not been shipped, but we had trouble with the castings, which when delivered to us proved defective and we had to have a new set made. Our Supt. promises now to ship the machine by Saturday or Monday at the latest. The various articles you refer to as missing shall be supplied.

Very truly yours,

The Edison Machine Works,

By



1883-11-28

November 28th.

3

A. A. Cowles, Esq.

10 Cliff Street, City.

My Dear Sir:-

We have had the battery which you sent for test duly tested, and give you below our tester's report:-

Internal resistance, one ohm; strength, 1.18 volts; current, 1.18 amperes. When put on short circuit it runs down very quickly.

Our tester reports that he does not think at all well of the battery.

Very truly yours,

Zak  
J

1883-11-28

November 28th. 1883.

Gustav Söldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

I am getting into very serious trouble indeed at the long delay in connection with the shipment of the 350 light machine for Fall River. I really think that the matter should have been hurried a little more than it has been, and I must insist that this machine ~~xxxx~~ be shipped to Fall River immediately. Unless we are a little more prompt on our shipments we shall get a very bad reputation. It must now be six or seven weeks since I asked that the machine be got ready.

Please ~~also~~ know absolutely by bearer when the machine will leave the shop, as I must telegraph to Fall River this morning.

I may say that the Fall River Company are prevented from lighting a mill and getting a large payment on a big contract in consequence of our delay, and they naturally feel the opposite of satisfied.

Very truly yours,

The Edison Machine Works,

By

1853-11-28

November 28th,

3

U. H. Painter, Esq.

Box 80,

Washington, D. C.

Friend Painter:-

Did you ever get a letter from me asking for a map  
of the United States: Our office is starving for one.

Cannot you manage to get one for us?

Very truly yours,

A handwritten signature, possibly "S. J.", written in dark ink.

1893-11-28

November 26th. 3

N. Stilwell, Esq.

Monlo Park, N. J.

Dear Sir:-

Referring to your favor of the 20th, inst., I wired you to let Mr. Claudius have a key of the laboratory. So long as he is at work there as a member of Mr. Clarke's staff, he is entitled to a key.

Very truly yours,

A handwritten signature, possibly "S. L.", written in dark ink.



1883-11-28

November 26th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Mr Edison insists that you telegraphed him instructing us to canvass Carlisle, Penna. I have no record of any such telegram in the office, nor do I recollect ever having received one. I have a telegram from you telling us to canvass Wellsborough, and we hope to send a canvasser there Monday or Tuesday at the latest. Will you please let me know at your early convenience whether you telegraphed Mr Edison desiring a canvas made of Carlisle, and if not whether you telegraphed any one else, as he may have heard of it through other channels.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-28

November 28th. 3

William Schwanck, Esq. Frost.

Mt. Carmel, Penna.

Dear Sir:-

Referring to your favor of the 26th. inst., I think that it would be very poor policy on the part of your Company to undertake to do any wiring itself. Our experience is that in such cases the local company has a very great deal of trouble with the consumers in collecting their bills, and we find it the best policy to have an outside party do the wiring of houses in the same method in which this is done at Shamokin. I am trying to arrange with Mr. Floyd to do your wiring at Mt. Carmel. I think this would be the most economical thing for you to do. Floyd is the man that does the work at Shamokin. He is within easy reach of Mt. Carmel, and in connection with the Shamokin work should be able to handle the work more economically than a local man at Mt. Carmel could, if you have no objection to the work being done by Floyd, ~~and~~ my only object in suggesting him is as stated above.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1893-11-28

November 28th. 3

W. Stillwell, Esq. .

Menlo Park, N. J.

Dear Sir:-

Mr. Claudius reports that the clock has been removed from the laboratory and taken down to the house at Menlo Park. This clock is the property of the Edison Electric Light Co., and Mr. Claudius is responsible for the same. The clock should be sent back immediately.

Yours truly,

*J. E. Smith*

1883 11-28

November 28th. 3

H. O. Stratton, Esq.

85 Oliver Street,

Boston, Mass.

Dear Sir:-

Referring to your favor of the 27th. inst., I do not know where you can buy the duplicating ink you refer to, but I have some in stock that I am not at present using, and shall be glad to let you have same at cost if you will let me know how much you want.

Very truly yours,

*Sam*  
*I*

1883-11-28

November 28th, 8.

P. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

Please let us know at your convenience how your friend, who is at the Brockton station with you, is posted on our work. Is he capable of taking care of a station? Also has he a sufficient mechanical knowledge to allow of his fitting up the interior of a station? Also please let us know his name and how we can reach him, as we want to see about putting him on our electrical staff. Also what was his experience before he went to Brockton with you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

Will you please arrange to return to New York at the earliest possible moment. You should leave things so that Mr. Jenks can permanently get on without any assistance from us. It is quite time we left them to run things by themselves.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



18F311-28

November 24th,

3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

Referring to your favor of the 23rd. inst., will you please let me have a minute account of your various troubles with the automatic regulator, and I will endeavor to give you a remedy for same.

Very truly yours,

S. A. J.

I have Johnson working on this

1883-11-25

November 24th.

3

Charles Batchelor, Esq.

Laris, Franco.

My Dear Batchelor:-

Will you please let me have an explanation of the enclosed, which appears in the Defect Book for November 24th.

"Extract of letter from Mr. Hennis, at Milan to Mr. Batchelor". Oct. 22, 1883 - "The Armington & Sims engines work badly. We seldom can run a night without changing them off once or twice during the evening. It seems impossible to keep them to the work, and up to now it takes just twice as much oil that a "Porter" does.

We have had another accident with a Porter engine by breaking the crank pin. This makes two pines that we have broken and I find that both pines were defective, and that cracks were in the steel when put up."

Very truly yours,

*W. H. L.*



1883-11-28

November 28th, 1883.

George H. Bliss, Esq. General Supt.

Chicago, Ills..

Dear Sir:-

We have your various letters making complaints about defective armatures.

In "I" armature No. 118, A we found a piece of a knife blade sticking between two commutator bars. This certainly was not done in our shop, as it would have been apparent before the armature left the shop, as the armature was tested before we sent it out.

"I" No. 105, A was shipped at a time when we were changing Superintendents, and this may have caused the trouble, as we cannot place on anybody the responsibility of shipping the armature referred to.

Very truly yours,

The Edison Machine Works,

By



1883-11-28

November 28th. 8

C. W. Cooke, Esq.

Post Office,

Williamsport, Penna.

Dear Sir:-

When you get through at Williamsport you are to go to  
Battle Creek, Mich., after that you will probably have to canvass  
Hillsdale, as Messrs. Markle & Hall have decided to drop out  
Hilon, but they will however advise you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

We desire to put another pulley on the  $1\frac{1}{2}$  x 10 engine  
now at ~~Providence~~ <sup>Providence</sup> so as to enable us to run two machines of one  
half the capacity of the present machine now attached to the engine  
referred to.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



11873 11-29

November 28

G. H. Cook, Esq.

Dear Sir:-

I send you by this mail a map of Williamsport from which you will gather where we propose running our mains in that city. The canvass was made according to the old rules of the Edison Electric Light Company, and is, in our opinion very defective. We want you to make an entirely new canvass of Williamsport and to take more territory extending beyond Academy Street. You must of course be very careful to take in the whole outside where we now propose to run our mains and as much more as possible. This work should be done by you as promptly as possible, and each day you should send forward the result of your previous night's work as we are to plot the canvass as quickly as possible and can do this to better advantage if we have daily reports from you. It is also very important that you should conduct your work without letting the local people know the object of your visit as we propose closing the contract on the old canvass and desire this new canvass made for our own information. The importance of getting through this work rapidly you will recognize when I tell you that we expect to close the Williamsport contract on Monday next and start our work there, whereas we will

1883-11-29

be unable to order our copper until we have completed the canvass  
that you are about making and shall have made a new determination  
on the basis of same.

Very truly yours

Thomas A. Edison, Construction Department,

NY

1813-11-30

November 30th. 3

E. H. Johnson, Esq.

202 Avenue E, City.

My Dear Johnson:-

I wish you would look into the trouble with the automatic regulator, with relation to which you will find several items from Chicago in Defect Book, 24th, November. If you will give your immediate attention to this matter you will oblige,

Very truly yours,

A handwritten signature in dark ink, appearing to be 'S. H.' or similar, written in a cursive style.

El. 24.-  
Italy

1873-11-30

November 30th.

Comitato per le applicazioni Dell' elettricità sistema Edison in  
Italia

Milano, Italy.

Gentlemen:-

Referring to your favor of October 4th., we beg to  
enclose you copy of a letter which we have just received from  
Messrs Bergmann & Co. The statements contained therein are  
perfectly correct and your request for a reduction in the price  
of not less than 50 per cent is very unreasonable. If sockets  
were sent you from Bergmann & Co. such as you send a sample of  
it was an error which could be rectified by allowing you, as Berg-  
mann & Co. suggest, the difference between the price of the two  
sockets, namely, 10 cents. Those sent you were not roughly made  
but simply a socket which we use for factory work. We cannot un-  
derstand how there can be so much ~~trouble with~~ <sup>trouble with</sup> them inasmuch as  
we are using the same socket here right along. The information  
you ask regarding other matters has been sent forward to you and  
the various material requisitioned for by you has all been ordered.  
My private secretary, Mr. Insull, is going to Europe early in Dec-

2nd



1893-11-30

November 30th, 3

Messrs. Markle & Hall,

P. O. Box 97,

Detroit, Mich.

Dear Sirs:-

Your favor of the 28th, inst. was received this morning. We will send Mr. Cooke or another canvasser back into your territory within the next few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-1430

November 26th.

4

John P. Fegura, Esq.

Boston, Mass.

Dear Sir:-

Referring to your favor of the 26th. inst., if you will give me the name of a stationer in Boston who would carry a stock of duplicating ink, I would arrange with him to supply it.

Very truly yours,

*Sab*  
*L*

1893-11-30

November 30th.

A. Stuart, Esq.

Dear Sir:-

Referring to your favor of the 24th, ~~we~~  
have only just got your map of ~~KKKKKKKK~~ Chillicothe finished.  
I now send you same by this mail under separate cover and shall  
be glad if you will get me central station lots within the area  
marked. I shall also be glad if you will have the enclosed spe-  
cial report filled up and returned at the earliest possible mom-  
ent. I do not think that this town would stand more than an  
800 light plant. If you will return the map with central station  
lots indicated and also the special report, I will push through  
an estimate in the shortest possible time.

Very truly yours,

Thomas A. Nelson, Construction Department.

97



Nov 30 1111

November 30th.

S. J. Hammer, Esq.

Leipziger Strasse 93

Berlin, Germany.

Dear Sir:-

Your favor without date came to hand yesterday. I will answer it at length within a day or so. My Secretary, Mr. Insull, will be in London the latter end of December. He hopes to get to Berlin and will try to do some business with your company. Will you please advise him of your movements. His address in London will be

S. Insull, Jr.

21 Burton Crescent,

London, W. C.

England.

He will probably arrive there about the 20th. of December.

Very truly yours,

*J. A. S.*

1853-11-30

November 30

Messrs Hermann & Co.

Gentlemen:-

We have a telegram from Mr. Walker at Tiffin in which he says that you have quoted 15 per cent to a Church Committee at Tiffin as the discount on fixtures whereas Mr. Shaw told the Committee that your discount was 12 1/2 per cent. Mr. Walker asks us which is correct and I have wired him that the discount quoted by you is correct. Is it not possible for you to allow more than 15 per cent on a good order for fixtures?

Very truly yours,

Thomas A. Faison, Construction Department,

by



1883-11-30

November 30th.

V. R. Upton, Esq.

Dear Sir:-

I beg to enclose you letter from Compagnie Continentale Edison. Mr. Edison has requested me to take this matter in hand and whilst in Paris to open a negotiation with the Compagnie Continentale on the following basis:

We to have the right to sell lamps to any of their licensees at such prices as we may ourselves desire to quote to them but to pay the Compagnie Continentale a royalty of one cent a lamp on all lamps so sold. The Compagnie Continentale to undertake not to sell lamps outside of their territory. This applies particularly to England. Will you please let me have your views on this subject in writing, as it is an important matter and I wish to be in perfect accord with you in anything I may do in Paris.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and appears to be 'Edison'.

1883-11-30

Nov. 30th.

A. Stuart, Esq. Secy.

Dear Sir:-

Referring to your favor of the 21st. inst. we found on Mr. Inghill's return to New York that we had already made 11 determinations in order to get the contract for Tiffin so we thought we could give Tiffin a little rest, and that is the reason you have not had any further determination. I return you herewith Mr. Dunn's letter with some personal notes of Mr. Edison thereon which will give you the data on which to reply to that gentleman. With relation to lighting the streets of Cynthania this would be dealt with in precisely the same manner as lighting the houses. If our mains ran through the streets we would just make a connection to a fixture on a pole, but inasmuch as our mains as a rule run through the alleys we should be compelled to put up special pole lines which would really represent so much inside wiring. If street lights are required it should be so indicated on the Cynthania map when it is returned to us so that we can allow for the main carrying them in making our determination. We would not include in our estimate the running of pole lines <sup>extra for street lighting.</sup> unless you so desire. We could however make a supplementary estimate to cover this point. It certainly would

1883-11-30

2

make considerable difference in the estimate but how much I cannot tell until we get the above data from you. Our method is to calculate our mains to carry a certain amount of current to supply lights in the residences. If they are to supply lights in the streets as well they must carry so much more current. Where our mains run through the main streets we would attach our lamps to the same as above stated. Where they do not we should have to run special poles.

Very truly yours,

Thomas A. Edison, Construction Department.

by





1883-11-30

November 30

A. Stuart, Esq.

Dear Sir:-

Referring to your favor of the 26th. inst. your statement which you send us does not agree with that furnished by Mr. Dyor. Have written to New Orleans to him asking him to check your statement, and if he has made a mistake in the statement rendered to us by <sup>you</sup> ~~him~~ we will immediately honor your check for \$100.

Very truly yours,

Thomas A. Edison, Construction Department.

by



1883-11-30

November 30th.

3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Messrs. Phelps, Dodge & Co. are very anxious to have about fifty lights installed in their office.

Will you please investigate their lamp hours and advise me as to the matter, as I should like to oblige them in compliance with the request of my friend Mr. Cowles, of the Ansonia Brass & Copper Co. Probably you could give them a less number of lights than they ask for, which lights would yield a good average lamp hours.

Very truly yours,

*Jac*

1883-12-01

December 1st, 1883.

Messrs. Macpherson, Willard & Co.

Bordentown, N. J.

Dear Sirs:-

I wired you yesterday that your forgings were made of poor iron in consequence of a complaint received from Mr Soldan, our superintendent. We left the Bridgeport Forge people and ordered our material from you mainly on account of the Bridgeport iron being somewhat poor. As the prices from each of you are practically the same, I would suggest that you see Mr Soldan the next time you are in town and then come up and see me about the matter.

I am fully aware that the orders you have in hand were only received on the 23rd. November, but if you can hurry them you will greatly favor us.

Very truly yours,

The Edison Machine Works,

By 

1883-12-1  
Middletown

December 1st. 3

H. N. Hoffmann, Esq. Frost.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have the pleasure to acknowledge receipt of your favor of the 28th; also, enclosing contract for the erection of a central station plant at Middletown, Ohio for 500 lights, contract amounting to \$18,900.31

We return you herewith the contract, which you will notice is signed "The Edison Electric Illuminating Company of

". The name Middletown should be filled in and the seal of the Company attached.

We also send you herewith a duplicate copy of the contract duly executed by us.

Under same cover we received your draft on the United States Bank of New York for \$2,100. and draft on Francis R. Upton for \$1,342.33 We will send you a receipt for these remittances as soon as Mr. Upton accepts his draft.

We would be glad to receive a list of the stockholders of the Middletown Company, so as to give us an opportunity of inquiring into its stability and financial standing. This will be

1883-12-01

Construction, Ohio.  
Ohio Edison Electric Installation Co.  
fact. per contract.

1883-12-01

December 1st.

2

unnecessary, however, if you will give us an undertaking that your  
Installation Company guarantees the contract with the Middletown  
Company.

Our understanding with Mr. Stuart was that these contracts  
were to be made with the Installation company itself and not with  
the local companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

Sl

Enclosure.

Sl

1883-12-03

December 3rd. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I enclose you herewith three notes dated the 12th. November, one for \$4,938.10 due March 15th., another for \$4,983.30 due April 15th. and another for \$3,007.73 due May 15th. in settlement of the open account with you as arranged.

Will you please acknowledge receipt and oblige,

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-03

December 3rd.

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We send you by express half dozen copies of the  
Engine and Boiler questions.

Any engineers applying for a position should answer  
these questions, and you should see that they do this while you  
are present. Do not allow them to take the questions home, as  
we do not want them to have any outside assistance in answering  
our questions.

Very truly yours,

Thomas A. Edison. Consb. Dept.

By



1883-12-03

December 3rd.

8

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have decided that hereafter we will pick the resistance lamps used in the test banks. The volts may be low, but as you propose to have the banks separate from the line, just to afford a load for testing, this will not matter. We can tune the candle power down with a field resistance. Have you any objections to this course?

Very truly yours,

Thomas A. Edison Const. Dept.

By





1883-12-03

December 3rd. - 3

H. H. Hoffmann, Esq. Pres.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

Again referring to your favor of November 24th., we  
beg to acknowledge receipt of \$3,422.33, being twentyfive per cent  
of the contract between the Edison Electric Illuminating Company of  
Middletown and myself and dated, said contract being for the  
installation of a 500 ~~Watts~~ Incandescent Light plant at Middletown  
Ohio.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



December 3rd,

3

George M. Hopkins, Esq.

117 Temple Court,

City.

My dear Sir:-

I have your favor of the 1st. inst., and in reply beg to ~~assure~~ state that the trouble is I have an arrangement with Mr. R. N. Dyer, who has his office here, which arrangement I am bound to hold to. I will see what I can do to bring you into some of our law cases, and it would not be a bad idea for you to remind me of the matter from time to time.

Very truly yours,

*W. H. L.*

1883-12-03

December 3rd,

3

J. C. Reiff, Esq.

care Voorishoffer & Co.

31 Exchange Place, City.

My Dear Reiff:-

Referring to your favor with relation to the Sey-  
fort suit, I think the best way is to postpone the matter just as  
long as possible, in fact carry out the same policy that has been  
carried out right along, meantime see what kind of a settlement  
can be made.

Very truly yours,

*Geo. I*

1883-12-03

December 8rd,

3

J. C. Roiff, Esq.

cara Weorishoffer & Co.

54 Exchange Place, City.

My Dear Roiff:-

I have your favor of the 1st.

The trouble with you is when you undertake to do a thing you never follow it up or come to see me to find out what progress is being made. I should think that instead of waiting patiently <sup>to hear</sup> from me that you would come up here and see me. The next time you are passing you had better look me up and we will talk the matter over. I have no idea of breaking any promises to anybody.

Very truly yours,

Zak

1873-12-03

December 3rd.

Messrs. Armington & Sims Co.

Providence, R. I.

Dear Sir:-

We have your account of November 30th., handed to us by Mr. Moore,

We have no bills for the items of the 27th. and 28th. October of \$4. each. With relation to the item of November 3rd., \$0.47, for man sent to Brockton, we hardly think that this expense is chargeable to us, and have therefore abstained from crediting your account until we hear further from you. As to the charge for engines sent to Shamokin \$775., as we wrote you, we do not think that you should charge us with this engine until it is clearly established that the troubles at Shamokin were our fault or the fault of our men. It so happens that the engine has never yet reached Shamokin.

Deducting these various amounts there remains a balance of \$7,502.80, for which we enclose two notes dated respectively the 12th. and 25th. November for \$4,761.48 each. These notes fall due on the 15th. and 31st. February. Trusting that these arrangements will prove satisfactory, and requesting you to return the enclosed vouchers signed, we beg to remain,

Very truly yours,



1883-12-03

December 3rd. 3

Isaac Walker, Esq.

care Judge J. F. Bunn,  
Tiffin, Ohio.

Dear Sir:-

We received the enclosed letter from Mr. Bunn this morning. Please return it after perusal.

You will, as he suggests, use the paragon cable wherever possible, providing the customers are willing that it be used.

We have a note referred to us by Messrs. Bergmann & Co. in relation to more material asked for by you. All your communications as to business matters should be addressed to this office, and anything you require we will send on to you, but you must not send your orders to Messrs. Bergmann & Co., as they simply refer your communications to us and we have to send them a requisition instructing them to fill your orders.

We should also like to receive from you a report as to what you are doing at least two or three times a week.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-04

December 4th.

3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

The two spare machines which you have asked for will be shipped from here on Wednesday. You will require a 48" driving pulley on each side of your <sup>1</sup>U 2 x 10 engine and it should be set to run at 325 revolutions. Do you propose to have the necessary alterations to the <sup>1</sup>U 2 x 10 engine made yourself or do you want us to take charge of it? Please let us know at the earliest possible moment, as we wish to have the machines running for you as quickly as possible, also give us an order to cover the necessary regu-  
lators, switches and electrical work.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-04

December 4th. 1883.

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We enclose you herewith blue prints of sketches which the Construction Department set up for use in their central station work. The 200 light machine runs at 1,300 revolutions and the 300 light machine runs at 1,200. We also enclose you statement of the speed &c. of each machine we now make.

We will have the brushes you ask for sent forward in the course of a few days.

Very truly yours,

The Edison Machine Works,

By 

Enclosure.



1883-12.04

December 4th.

3

Messrs. Barlow & Hall,

P. O. Box 27,

Detroit, Mich.

Dear Sirs:-

Yours of the 1st. inst. to hand.

Our Mr. Cooke leaves Williamsport for Battle Creek either  
to-day or to-morrow morning. Trusting that this will <sup>prove</sup> sat-  
isfactory to you, we are,

Very truly yours,

Thomas A. Edison Condn. Dept.

By



1883-12-04

December 4th. 3

Frank Maion, Esq.

care Worcester C. West Co.

Worcester, Mass.

Dear Sir:-

We have your favor of the 30th, ult., and in reply would suggest that you go to Fall River, when you have time within the next week or so, and call on our Mr. Andrews and have a talk with him. On receipt of his report in relation to the matter we shall then be able to inform you whether we can offer you a position. If we do so, your remuneration to start with would be very low, as it would be sometime before your services would be of any great value to us.

Mr. Andrews' address is W. S. Andrews, care Edison Electric Illuminating Co., Fall River, Mass.

Very truly yours,

Thomas A. Edison Constn, Dept.

By 

1883-12 04

December 4th.

3

U. N. Painter, Esq.

Box 88,

Washington, D. C.

Friend Painter:-

The map of the United States came to hand yesterday. I am very much obliged to you for same.

I cannot find that letter which you state was written to you. Johnson says you only thought it was written to you, and he informed me that when he hunted for it he could not find it either.

Very truly yours,

1883-12-04

December 4th.

3

Messrs. J. P. Rogers, & Co.

63 India Square,

Boston, Mass.

Dear Sirs:-

I have your favor of December 1st., and in reply beg  
to state that I will communicate with Messrs. Cotton & Guild in  
relation to the ink.

Very truly yours,

Zak  
J

1883-12-04

December 4th. 3

W. C. Smith, Esq.

Foreman of Construction,

Rapid Telegraph Co.,

151 Broadway, City.

Dear Sir:-

I shall be glad to see you if you are inclined to take a position with me in connection with the erection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-04

December 4th.

3

William Schwenk, Esq. Prost.  
Mt. Carmel, Penna.

Dear Sir:-

We have your favor of December 1st., and regret very much that "all the parties here are disgusted with the management". We are doing all we can to push the work, and the material, the supply of which we absolutely control, has gone forward. Certain things we have to get from outside parties are being pushed as quickly as possible.

You can purchase all necessary material for wirework from Messrs. Hergmann & Co., 203 Avenue B, New York. I think, however, the best way would be for you to limit an amount you desire sent and order it through me, and I would be careful to see you got exactly what you wanted and at the proper prices. I am of the opinion that you would be far better served if you got Floyd of Shimukin to do your wiring, in which case he would supply his own material, as he carries a stock of it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1783-12-04

December 4th. 8

J. S. Andrews, Esq.

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We enclose you herewith letter from Frank Maies of  
Worcester, Mass. We have informed this gentleman that he had  
better call on you at Fall River and have a talk with you in  
relation to what he wants. If he does so, will you please let us  
hear from you as to the matter, and if he is likely to turn out a  
good man we might start him as the rest of the novices in our  
business.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-04.

December 4th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

The spare machines will be shipped to Lawrence by Wednesday at the latest. When you go there to put them up will you please keep an exact time it takes on the machines used, as these are extra and outside of our contract and we have to charge them for it. Are the foundations all ready and has the Lawrence Company had their 6" x 10 engine altered, so as to carry a driving pulley on each end of the shaft. I have written to Mr. Ford about this matter by to-night's mail.

Very truly yours,

Thomas A. Edison Constn. Dept.

by





1883-12-04

December 4th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Please let us know as early as possible when your station will be ready to start up at Fall River, as I think Mr Edison will go up to start it, and I accordingly would like to know, so that he can be prepared at the time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1783-12-04.

December 4th. 3

The Arrington & Sims Co.

Providence, R. I.

Dear Sirs:-

You will notice that we have sent you in a number of orders for single engines, that is we propose running them in small stations without a spare. I spoke to your Mr. Sims sometime ago as to what extra parts should be sent with those engines, so as to enable our men to remedy a breakdown quickly. Will you please let me have by return a list of the extra parts that you think should go with the 9 2 x 12<sup>1</sup> and the 14 2 x 13<sup>1</sup> engines, where they are put in a station by themselves. Kindly attend to this matter immediately, as I wish to settle on our policy in this connection before I sail for Europe.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We beg to inform you that we have received a telegram from Mr. Rich stating that the Tiffin station will be ready for wiring in two weeks.

Very truly yours,

Thomas A. Nelson Constn. Dept.

By 

1883-12-04

December 4th. 11

W. S. Andrews, Esq.

P. O. Box 533,

Fall River, Mass.

Dear Sir:-

We want to get up a small book of examples of wiring in placing lights and safety plugs. The examples should be made to scale approximately. Will you please collect them as you have leisure and give sizes of wire used. I send you two rough copies of book giving sizes of wire, one for services on three wire system and one for services and inside wiring on two wire system, both have one per cent drop. I will send you to-morrow one for two ~~wire~~ wire system with two per cent drop. You will notice that the lamps are all supposed to be placed at the ~~extremities~~ <sup>ends</sup>. Of course this is so with services but not so with inside wiring, but I think it best to have a surplus of wire services. I think you should not have but one per cent drop, but the inside wiring can stand two per cent, especially as it will not work bad, owing to the disposition of the lamps.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th.

Messrs. Eimer & Amend,

303 Third Avenue, City.

Dear Sirs:-

We have complaints that the meter bottles which you sent out for us have iron in them in the form of iron scales. This renders them absolutely useless for our purpose, as the acid solution which we put in the bottle of <sup>Necessity</sup> ~~acid~~ takes up the iron. Will you please rectify this in future.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-04

December 4th. 3

James Harris, Esq. Secty.

Bellefonte, Penna.

Dear Sir:-

I give you below prices of the various lamps made:-

10 candle lamps.....\$ .50

10 candle lamps.....<sup>25</sup>.40

32 candle lamps......60

50 candle lamps..... 1.00

100 candle lamps..... 1.50, Box, and packing added.

The 10 candle lamp, although apparently higher priced than the 10 candle lamp, as a matter of fact is more durable and is more ~~economical~~ <sup>economical</sup> and better suited to the consumer and takes the place of a gas jet. If the 10 candle lamp is used extensively the bills of your consumers will be 10 higher than their gas bills, estimating that you sell it at the same price as gas. In fact we look upon the 10 candle lamp as the

Very truly yours,

Thomas A. Edison Constn. Dept.

By

1873-12-04

December 4th, 3

A. J. Brown, Esq.

Foreman of Construction,

Western Union Telegraph Co.

103 Broadway, City.

Dear Sir:-

I shall be glad to see you if you are inclined to take  
a position with me in connection with the erection of electric  
light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-04

December 4th.

Messrs. Bergmann & Co.

322 Avenue H, City.

Dear Sirs:-

I notice in the supplement of your catalogue that you mention the various articles got up for the Construction Department. As the greater number of these things are made for use in connection with our work and the experience which results from their being made costs this Department quite a good deal of money, I think that you should arrange your prices so ~~xxx~~ as to let us have the various articles we order at better rates than you sell to other customers, say an extra discount of fifteen per cent.

Will you please let me have your views on the subject.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 



1893-12-04

December 4th. 3

Messrs. Bergmann & Co.

203 Avenue H, City.

Dear Sirs:-

We have very serious complaints from Fall River of the non-arrival there of the material ordered from you for fixing up the central station. We have four men there who are unable to work, owing to your not shipping our goods promptly. This delay in a station of any size causes us a loss of from \$20. to \$25. a day, besides keeping us out of our money for our work considerably longer than would be the case if you would ship promptly. It seems to me very strange that you cannot get out a few switches in less time than we can have boilers shipped, steam piping made, engines built and dynamos constructed.

Cannot you give me an absolute date at which you can ship our orders for Fall River, Tiffin, Mt. Carmel, Hazelton, Bellefonte, ~~Hazleton and Tiffin~~. The goods should go forward in the order mentioned. We impressed upon you when giving the orders for these stations that it was necessary that the safety catches for pole line work should be shipped immediately. <sup>Especially Tiffin</sup> It is now twelve or thirteen days since you received the orders and we have no notification of shipment, and we have three men who are waiting to use these safety catches. I am very much afraid that we shall

1883-12-04

2

have nearly \$250,000. worth of work to carry upwards of thirty days longer than we ought to, unless you ~~were~~ to ship to us more promptly. If you are pressed why cannot you arrange to put some one else back, as ours is certainly the most important, as the amounts involved in our contracts are so much higher than the Isolated Company or any of the Illuminating Companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th. 3

Messrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

We have your extremely pleasant letter of the 1st.  
December.

If you do not know who Mr. Shaw is, considering the time  
he has been in our business, I think it about time you do.  
He is the State Manager for the Edison Electric Light in Penna.,  
and has some connection with the Ohio Installation Company.  
It is not our business to communicate with Mr. Shaw and tell him  
what he should do or should not do. If you want any information  
conveyed to him about discounts we would suggest that you do it  
yourselves.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1873-12-04

December 4th.

. 3

Messrs. Cotton & Guild,

24 Milk Street,

Boston, Mass.

Dear Sirs:-

We have frequent inquiries from Boston as to the duplicating ink of mine which was sold extensively some few years back, but of which none has been made for some time past.

Messrs. J. P. Rogers & Co. have suggested to me that I *arrange* with you to carry a stock. If you are willing to do so, I will have some made up in my laboratory, and will sell it to you at a reasonable price. I am anxious to pursue some such course as this in order to oblige the people applying to me for it.

Very truly yours,

*W. L. G.*

1893-12-04

Personal.

December 4th,

3

A. B. Chandler, Esq.

44 East 14th. Street, City.

Friend Chandler:-

Yours of the 1st. to hand.

I have written to Brown & Smith offering them positions.

If you hear of any other men let me know.

Very truly yours,

Jac  
I

1883-12-04

December 4th. 3

Paul D. Dyer, Esq.

161 Carondelet Street,  
New Orleans, La.

Dear Sir:-

I have your favor of the 28th. inst.

If you are not near home at Christmas time we will allow you the amount of your expenses to get to Washington and back to the point where you are at work. I presume you have no objection to this. Of course we sympathize with a man who goes into a town like New Orleans and buys his experience at the rate of \$30. a lesson.

Our business is getting along swimmingly. At the present time we are erecting the following central stations, Fall River, \$40,000., Newburgh, N. Y., \$40,000., Vallejo, \$15,000., Mt. Carmel, \$14,000. and Hazelton, \$20,000. The last three places are in Pennsylvania. Lima, Ohio, \$13,000., Tiffin, Ohio, \$14,000. and Middletown, Ohio, \$13,000. We shall start in Williamsport in the course of a week, contract \$53,000. Brockton, Lawrence, Shamokin and Sunbury are running elegantly, getting all the customers we want and making money. This is the state of our business in brief.

I have been going for our boys in the office for not sending you bulletins, but they do not contain any information about

1883-12-04

2

about our central stations. The New York Central Station is just "booming", collections \$10,000. per month. Have more customers than we can possibly carry, and if we get through December without a breakdown it will simply be that the "angels" are on our side, as we have too many lights connected already.

I sail for Europe on the 11th. December and shall be away until the 1st. February and if you do not get any word from this office that you can go home to spend Christmas just take "French leave", and charge your expenses in your weekly statement and if they "kick" refer them to this letter.

Very truly yours,

BB

1893-12-04

December 4th.

3

A. B. Chandler, Esq.

44 East 14th, Street, City.

Friend Chandler:-

Yours of the first to hand.

With relation to Colonel Sherman, he goes to Buenos Ayres solely for the Edison Electric Light Company, and I cannot see how it would be possible for him to do business for any one else. He is as you state a "queer dick", but seems to be an indefatigable worker.

Very truly yours,

Jac  
I



By Edison Machine Works,

1893-12-04

December 4th. 1893.

A. A. Cowles, Esq. Secty.

18 Cliff Street, City.

Dear Sir:-

I am still receiving complaints from our Superintendent of the delay in shipping him wire and bars for armatures and magnets. Cannot you hurry forward a heavy shipment, so as to give us something to work on. The quantities shipped to us are so small right along that we are continually in arrears and consequently obliged to continually complain, which I can assure you is very distasteful considering the manner in which you oblige us in other contracts. I am

I am having a statement prepared of the exact shipments made within the last few months. I will come down and see you about the matter probably Thursday or Friday.

Very truly yours,

The Edison Machine Works,

By

89

1883-12-04

December 4th, 1883,

W. H. Dwyer, Jr. Esq. Treas.

Full River, Mass.

Dear Sir:-

We have your favor of the 1st. inst., and immediately on receipt of same arranged to borrow an armature from the Isolated Company, in order to accommodate you, under the circumstances.

We wired you this morning that the armature would be shipped this

~~afternoon~~ <sup>afternoon</sup>. You must remember that we do not keep a stock of armatures of the old form of machines on hand, and consequently we have some difficulty in filling your orders for same right away.

If you <sup>order</sup> ~~order~~ an armature it takes at least two weeks to make same.

Very truly yours,

The Edison Machine Works,

By



1993-12-04

December 4th.

3

W. W. Dwyer, Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have the pleasure to acknowledge receipt of your favor of the 1st. inst.

The spare dynamo were shipped to Mr. Andrews either on Saturday or Monday.

We purposely kept back the meter supplies &c. until the other work is practically completed, as our experience is that parts get lost in the confusion of getting the station in order.

We will, however, have everything necessary shipped forward this week.

, Temporary fixtures and insulating joints will all go forward. Lamps will in all probability go to-day, if they were not shipped yesterday.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *S. J.*

1883-12-04

December 4th.

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

I am much surprised to receive your favor of the 30th, November. If you will look over your contract you will find that the third payment is due thirty days after the plant is in condition to supply light, and your plant has been in condition to supply light considerable time, and what I ask for is for a payment on account, and there is a balance left which, together with the extra tubes laid, gives an ample margin for any such troubles as you speak of. You are short about \$100. worth of meters at the present time.

Your indicators are made in accordance with the indicators got up by the Engineering Department of the Edison Electric Light Company, but notwithstanding this I propose to replace them as soon as I have a stock of an indicator of a more recent design, which I got up myself within the last month. I am not compelled to do this under my contract, but propose to do it in order to give you an article which, in my opinion, is best suited to your business.

Our Superintendent claims that the work is done properly and asserts that every other injector has been connected in the same way elsewhere.

You state that your engines have ten inch belts, when they should have twelve inch. This is simply a matter of opinion on your part. We have not allowed more than a ten inch elsewhere.

I would request you to reconsider your decision as to withholding the check for \$5,000., as I think I am fully justified in asking for it at the present time, more especially as we have lost considerable money in the installation of your plant at Lawrence.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th.

3

Messrs. Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We think, in reply to yours of the 24th. ulto., we prefer to wait and make a successful installation rather than risk failure, which the plant you suggest would in all probability lead to.

Very truly yours,

Thomas A. Edison Constn. Dept.

by



1883-12-04

December 4th.

3

W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

We shall be ready to ship the two small machines to Brockton sometime this week, and we shall be glad if you will send us by return an exact plan of that part of the engine room showing the position of the present small engine and dynamo, also the position of the large engine and the two dynamos. What I want to find out is whether it will be necessary for us to move the small engine from its present position, to enable us to drive two dynamos from each side of the shaft. If this is necessary it will add very materially to the expense of making the change, but if it is unnecessary we can supply the new dynamos and make some alterations with the engine and make the necessary connections for about \$850. In this of course we allow for taking back the present "H" dynamo which you now have. I will write you to-morrow giving absolute figures for which we will make the change.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-04

*Steam Engines*

December 4th. 3

Messrs. Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We have your favor of the 26th. November, and in reply beg to state that our business being a peculiar one we have to use material best adapted to it. The Babcock & Wilcox boiler is the only one which we can use and rely upon. It is a quick steaming boiler and takes care of the great variations in our load, which rises often from ~~100~~ to 150 horse power in the course of ten minutes. We have tried every other kind of boiler and find that it is the only one we can use. The old tubular boiler is very much cheaper, but absolutely of no use to us.

About three years ago we experimented on every form of engine we could find and have ever since continued the same experiments. We have never, however, found an engine suitable to our business as the Lawrence engine. It would take too long to go into all the reasons for explaining the advantages of it, so it must suffice for me to say that it is as much a part of our plant as the dynamo, and we shall continue to use it until we find some other engine equally as good as that manufactured by the Armington & Sims Co.

Very truly yours,

*Sf*



1883-12-04

Piqua

December 4th.

3

M. H. Hoffmann, Esq. Pres.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 30th. November enclosing check for \$3,400.75, being twenty five per cent of the contract price for the erection of a central station plant at Piqua, Ohio.

I shall be glad to hear from you whether the contract is to be made with your Company or the local Illuminating Company of Piqua. Immediately on receipt of this information I will send you signed contract. If the contract is to be made with the Piqua Company, please send me full information as to the officers of the Company, copy of the subscribers and amount of their subscriptions.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-04

Piqua

December 4th.

3

A. A. Dowlen, Esq. Secy.

19 Cliff Street, City.

Dear Sir:-

We enclose you herewith order for wire for Piqua, Ohio.  
Please have the necessary papers made out and forwarded to us for  
signature. The amount of our contract with the Edison Electric  
Illuminating Company of Piqua, Ohio is \$13,070.40

Very truly yours,

Thomas A. Edison Constr. Dept.

By



Enclosure.

1883-12-04

December 4th. 3

A. A. Cowles, Esq. Secty.

10 Cliff Street, City.

Dear Sir:-

Referring to your favor of the 3rd. inst., will you please have the necessary papers in connection with the order for the Middletown, Ohio, wire. Our contract is with the Edison Electric Illuminating Company of Middletown, Ohio, and the amount of same is \$13,400.31

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12 05

December 5th. 3

Frank B. Mc Cormick, Esq. Prost,  
Williamsport, Penna.

Dear Sir:-

I am going to leave here for Europe on Tuesday next,  
and should very much like to take with me a letter from you as  
President of the Sanbury Company, stating your experience with  
your plant and the length of time you have been running, the  
number of lights you now have, the cost of running, your receipts  
and what you look forward to making.

This will be of immense assistance to me in dealing  
European  
with some of Mr. Edison's friends. Will you so far oblige by  
sending me this as soon as you can.

Very truly yours,



1893-12-05

December 5th.

3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

I am going to leave here for Europe on Tuesday next, and should very much like to take with me a letter from you as President of the Shamokin Company, stating your experience with your plant and the length of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This will be of immense assistance to me in dealing with some of Mr Edison's European friends. Will you so far oblige by sending me this as soon as you can.

Very truly yours,



1883-12-05

December 5th. 3

Messrs. Bradstreets,

222 Broadway, City.

Dear Sirs:-

I shall be glad if you will inquire into the standing of the Edison Electric Illuminating Company of Middletown, Butler County, Ohio. The stockholders are, we understand, as follows:-

D. McCallay, R. Wilson, C. P. Johnson, C. H. Wardlow and J. F.

Thomas, besides some Cincinnati parties with whom we are acquainted

What we particularly want to know is the standing of the gentlemen

whose names we mention, and what is thought of this new Company

in Middletown.

Very truly yours,

*Jak*  
*J*

1883-12-05

December 5th.

3

W. D. Rich, Esq.

Dear Sir:-

Referring to your plan of Bellefonte, I regret to inform you that the sketch you have sent us indicates that the arrangement of the interior of the station is entirely opposed to the methods which Mr. Edison desires us to pursue in designing the interior of stations. Of course this is a matter which you could not be posted about, but I would be glad if in the future, before making any alterations in our plans, you would please refer the questions to this office, so as to give our engineers an opportunity of expressing their opinion on the matter. You have placed the cylinders of the engine as far away from the boiler as possible whereas it is Mr. Edison's desire that it should be as near to the boiler as possible, so that the engineer can attend to his throttle and see that this boiler is all right without moving from one position.

I am afraid that when Mr. Edison comes to visit Bellefonte he will criticize very severely the proposed arrangement there. Are your foundations so far advanced that it is impossible for us to alter the arrangement? If so, of course we must leave the matter as it is, as there is not sufficient margin to allow of our building the work up again.

1883-12-05

2

I am going to have a plan prepared with the same size building as you have arranged, but with the machinery and interior of the station arranged so as to conform with Mr. Edison's ideas as to the matter. He is very positive in his instructions on these questions or else I should not trouble you as to the ~~same~~ <sup>point</sup> involved.

There is also another point, whenever you alter the plan of a building you should advise us of the exact alterations, either before the alterations are made, which would be preferable, or if that is impossible after the work is completed.

We desire to make some alterations at Brockton just now and we understand that the plans in our office of the station shows by no means the same measurements as the arrangement of the station itself. Our machinery is always placed with the idea of effecting alterations at the least possible expense. We have to take out one "H" dynamo at Brockton and put in two dynamos, each of half the capacity of the "H", and these we propose driving from a pulley on each end of the shaft of the <sup>1</sup>2 x 10 engine.

We very much fear that we shall have to take the engine down and build a new foundation in order to do this. We have written to Mr. Jenks for the exact measurements, as Mr. Sprague informs us that our plans are incorrect, as I have stated above.

Very truly yours,

89



1893-12-05

December 3th.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

A Mr. Spencer, a friend of Sprague's, is very anxious to start in our business.

I have requested him to report to you at Fall River.

You might start him in like the rest of the novices and see what he <sup>is made</sup> ~~is made~~ of. Mr. Edison says that he is very well posted and will turn out a very useful ~~man~~. Please advise us the day he arrives in Fall River.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

SA

1883-12-05

December 12th. 8

John Ott, Esq.

1492 Avenue U, City.

Dear Sir:-

Mr. Tate complains to me that he does not think that the orders of our Construction Department have any particular attention down *at* the laboratory. If he has reason to make this complaint again, I shall bring the matter to Mr. Edison's attention, as I wish you to understand that it is important that any instructions we issue as to our material should receive prompt and thorough attention.

Very truly yours,

Thomas A. Edison Constr. Dept.

By *SP*

1813-12-05

December 5th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

Referring to your favor of the 2nd. December, will you please get the authority from Major Eaton authorizing us to canvass and prepare estimates for Kingston & Rondout.

Mr. Krussi has not yet been able to let us have his two estimates for Haverstraw and Poughkeepsie. Immediately he does, however, we will push the estimates through as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



December 3th.

3

Frank H. McCormick, Esq. Pres.

WilliamSPORT, Panna.

Dear Sir:-

We wrote you on the 19th. November asking for a  
settlement of our account with the Edison Electric Illuminating  
Company of Sunbury, but have received no reply *from you*

Will you please let us hear from you in relation to the  
matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *SA*

1883-12-05

December 5th. 2

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We wrote you on the 20th. November, asking for a settlement of our account with you, but have received no reply.

Will you please send us a remittance by return.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-05

December 5th, 1883,

W. H. Dwyer, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

You will greatly oblige us if you can arrange us a remittance by return mail for the amount of our account against you.

We enclose you herewith statement showing balance against you of \$3,051.75

Very truly yours,

The Edison Machine Works,

By 

Enclosure.

1883-12-05

December 5th. 3

George Crower, Esq.

Testing Room,

104 Goerck Street, City.

Dear Sir:-

I send you herewith half a pound of ~~commercial~~ sulphate of zinc from Powers & Weightman. I shall be glad if you will test this and give us an exact ~~xxx~~ record of the test. Messrs. Powers & Weightman claim that this is as good zinc as Leach & Pank's chemical pure.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

Enclosure.

1883-12-05

December 5th. 3

W. J. Garrison, Esq. Treas.

Boston, Mass.

Dear Sir:-

We enclose you herewith statement of account which explains itself, and shall be glad to receive your check for the balance \$1,027.42 at your early convenience.

Very truly yours,

Thomas A. Edison Constr. Bldg.

By



Enclosure.



1883-12-05

December 5th.

3

I. Weinschank, Esq.

50 West 24th. Street, City.

Dear Sir:-

Referring to your favor of the 3rd. inst., I will  
call at your place on Monday next about ten o'clock.

Very truly yours,

*Wm*  
*I*

1883-12-05

December 5th. 1883.

Western Edison Light Co.

Chicago, Ills.

Dear Sirs:-

We beg to enclose you herewith statement of account showing balance against you of \$3,180.13

I shall be very much obliged to you if you will allow us to draw on you at sight for this amount, and if we do not hear from you by telegraph to the contrary we shall send a draft forward for collection on Saturday next.

Trusting that you will be able to oblige us, we beg to remain,

Very truly yours,

The Edison Machine Works,

By



Enclosure.

1893-12-05

December 5th, 1893,

Messrs. Hermann & Co.

203 Avenue B, City.

Dear Sirs:-

If you have that block of slate, will you please send it down to Soldan immediately, as Mr Edison wants him to work it up into a commutator right away.

Very truly yours,

The Edison Machine Works,

By



1883-12-05

December 5th. 3

George H. Bliss, Esq.  
Chicago, Ills.

Dear Sir:-

We have your favor of the 3rd. inst.

One 32 candle lamp is equivalent to two 16 candle lamps.

You must have the dynamo you refer to in a hot place, or else you do not keep the brushes at the non-sparking point.

If they are placed two blocks away from the non-sparking point, the machine will heat more, even if 50 extra lamps were put on it. We are improving our new machines in the matter of commutators.

We must confess that we cannot understand why it is, but the troubles with machines seem to come <sup>almost entirely</sup> from your territory, as we do not hear of any troubles from any other places that amount to anything.

Very truly yours,

Zac  
L

1883-12-05

December 5th. 3

Messrs. Northmann & Co.

203 Avenue P, City.

Dear Sirs:-

Referring to your favor of the 5th. inst., we certainly think that we should receive the special articles we use at prices better than those at which you sell them to outside customers. Of course we have to charge in our contract a higher price than what we pay you for the goods. Consequently unless you pursue the course we suggest, we shall be in the position of charging more for your material than it can be bought from you direct, which certainly is not advisable considering that the articles which I refer to are such as you make particularly for us, and any outside customer would certainly not require any such quantities as we do. Why cannot you arrange to allow us a discount of 30 per cent and ~~other~~ people a discount of 10 per cent, or do I understand that you have already quoted 30 per cent discount. *to everybody* I should think that if you had not, that you could make an exception in the case of central station articles as against the discounts you allow on articles of general manufacture.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1883-12-05

December 5th.

3

U. D. W. Vroom, Esq.

Trenton, N. J.

Dear Sir:-

Referring to your favor of the 3rd. inst., if you  
will send on the affidavit that is necessary I will execute and  
return it to you forthwith.

Very truly yours,

*U. D. W. Vroom*

December 5th.

3

Straight Line Engine Co.

Syracuse, N. Y.

Dear Sirs:-

Referring to our correspondence as to the straight line engine, I shall be glad if you will build me a 10 x 12 engine, having two driving pulleys thereon 50 inches in diameter and 11 inch face. We should require to run the engine at speeds varying from 240 to 270 revolutions. We shall have to depend on you entirely for drawings, as we have no draughtsman to send you.

Very truly yours,

*Yak*

7882-12-05

December 5th.

3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We have a report from one of our men at Tiffin stating that you quoted 3 1/2 per cent discount to some local parties there for Bergmann & Co's fixtures, whereas Bergmann & Co. have quoted 15 per cent. Bergmann & Co's discounts vary according to the nature of their orders and the people they are dealing with (like everybody else's discounts) and they have asked us to request you not to mention discounts in the future.

Very truly yours,

Thomas A. Edison Constn. Dept.

Ky





1883-12-06

December 6th. 3

Francis W. Upton, Esq.

East Newark, N. J.

Dear Sir:-

Mr. Andrews writes us that for the future he will run the bank of test lamps separate from main line in stations. If the lamps are picked the matter of low volts will be of no consequence.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-06

December 6th, 3

G. W. Wilbur, Esq.

Post Office,

Mobile, Ala.

Dear Sir:-

Your favors of the 27th, November and 2nd, December came duly to hand, and we are obliged to you for the information contained therein.

I have referred the matter of lighting the hotel to Mr. Hutchinson, of the Isolated Company.

I telegraphed you to-day to Atlanta to canvass Mobile and Danville, Va. We have no connections in either of these places, so you must choose a district for yourself, making the canvass as ample as possible.

You had better try and arrange your canvasses so as to return to New York before Christmas.

About the commencement of the New Year we shall start you at work in Boston canvassing there, and shall probably keep you East some time.

Your friend Lyons is in Wellsborough, Penna.. He will be in that State that whole of this month.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

89

1883-12-06

December 6th, 1883.

Messrs. Woodward, Sherwood & Co.,

17 Montgomery Street,

Jersey City, N. J.

Dear Sirs:-

We have now a pattern shop in connection with our  
Works at Coeck Street. Will this make any difference in our  
insurance?

Very truly yours,

The Edison Machine Works,

By



1883-12-06

December 6th. 3

G. B. Markle, Jr. Esq.

Hazleton, Penna.

Dear Sir:-

We have your telegram of this date, and at once telegraphed to our Superintendent, who is now in Ohio, and we hear from him that he will be in Bellefonte on Monday and will in all probability be in Hazleton the next day.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1893-12-06

December 6th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

We have information that your engineer got drunk the other night and left the station in charge of a boy, and we also hear that your lights are very poorly regulated, and that the City Hotel people have threatened to go back to Gas unless there is a change for the better. We trust that this is not so, and write you for information.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-06

December 4th. 3

W. D. Rich, Esq.

Post Office,

Bellefonte, Penna.

Dear Sir:-

We have your various telegrams and beg to confirm the several telegrams we have sent you as to Mt. Carmell, Bellefonte and Hazleton.

It does not seem to us that the work in these places is being sufficiently pushed. This is no fault of yours, but arises from the fact that you have so much to handle, and we would remind you that we spoke to you when you were here and thought you made a mistake in not having men who could take the initiative in starting work, even during your absence you have got to do something of this character with them.

To-day we have telegraphic instructions that Williamsport has been finally closed and work will have to proceed there right away. We will send all the information about Williamsport to Hazleton, where we presume you will be about Monday.

Enclosed please find check for \$500. as requested.  
Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-06

December 6th. 3

Thomas Spencer, Esq.

South Meriden, Conn.

Dear Sir:-

If you are willing to start in our business and learn our central station work, please report immediately to Mr W. S. Andrews at our central station in Fall River, Mass. You can find out the exact location of the station by applying to Mr W. H. Dwyer, Jr., Treasurer, Edison Electric Illuminating Co., Borden Block, Fall River.

Until such time as your services are valuable to us we will allow you a nominal salary of \$10. per week and <sup>may</sup> ~~also~~ railroad fares etc.

Please advise us immediately if you decide to start in with us.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1853-12.06

December 6th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have your telegram stating that the lot has been purchased in Piqua, and we have also received a telegram from our Superintendent stating that he would be in Piqua to-morrow morning.

We must confess that we feel somewhat annoyed that he should be kept in Middletown with practically nothing to do, as his time is very valuable to us indeed, and we would urge you in the future to be sure that you have our lot purchased before ~~we~~ <sup>ask him</sup> to start work on a plant.

Very truly yours,

Thomas A. Edison Constn. Secty.

By





1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Leonard is very anxious to go out to Ohio. We simply wish to notify you of his wish. It must rest with you entirely as to whether he should go there.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1893-12-07

December 7th.

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Do you know where Farby is? I could give him probably a month or six weeks work at Mt. Carmel. The last I heard of him from you was that he was at Lawrence. If he is there still when will he be disengaged? Please wire me on receipt of this, as I have a letter in the office which I cannot answer until I hear from you.

Yours truly,

Thomas A. Wilson Constn. Dept.

By



1883-12-07

December 7th.

3

L. L. Van Praagt, Esq.

P. O. Box 344,

Salt Lake City, U. T.

Dear Sir:-

In reply to your favor of the 30th. November, Mr. Edison desires me to state that were he not well versed in the laws of electrical science he would be unable to make any progress whatever. I may myself add that a long series of successful electrical inventions have never been known to be the product of casual thought.

Yours truly,

SL  
PS

1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

I am obliged to you for your favor of the 6th. inst., enclosing design for three wire cut-out. The matter is having the attention of Mr. Johnson and he will doubtless get up a cut-out for the purpose in time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-07

December 7th. 8

J. N. Blauvelt, Esq.

23 Clinton Place, City.

Dear Sir:-

I have made inquiries with relation to the references you gave me, which prove entirely satisfactory.

I shall therefore be glad if you will report here for duty on Monday morning next.

Your salary will be \$12. per week.

It is of course understood that you come here for trial, as we can hardly judge as to your abilities until we have had some experience with you.

Yours truly,

SK  
PS

1883-12-07

December 7th. 3

Judge J. F. Dunn, Esq.

Tiffin, Ohio.

Dear Sir:-

We have a letter from our Mr. Walker with relation to wiring.

Our object in sending him to Tiffin was to teach a local plumber or gas fitter to be appointed by you to do outside wire-work. The whole of the transactions with outside parties should be conducted by this plumber. Our Mr. Walker should simply supervise the plumbers work and teach him how to run the business. It would be a great mistake for your local Company to do the wiring itself. This we find from extended experience. You should appoint some local man to do it, and have him deal with your consumers in the same manner that we are running our business in Shamokin. There the local gasfitter has charge of the wiring, and our Illuminating Company has nothing whatever to do with the matter. We sent them a man who taught the gasfitter the business, and it is with this object that Mr. Walker has been sent to Tiffin.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. L. Garrison, Esq.

Boston, Mass.

Dear Sir:-

We have to-day got out the map of Auburn, and we will write you to-morrow or Monday in relation to the matter of the desirability of the town for electric lighting.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-07

December 7th. 3

H. H. Hoffman, Esq., Pres.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 5th. inst., and in reply beg to state that we will post you of any delay in the work at Piqua, Tiffin or Middletown. We do not anticipate any at present, except in the case in the delay from a matter over which we had no control of and of which you are aware, as it is connected with the purchase of a lot at Piqua.

We have not received the executed contract of Piqua, although we are going ahead with the work. Will you please send this on. It was mailed to you some time back.

Yours truly,

Thomas A. Edison Constn. Dept.

By





1883-12-07

December 7th.

H. W. Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 4th. inst.

You must arrange with Mr. Andrews as to your going to Ohio. He has full charge of our electrical staff and the disposition of the services of the members of same. We have written him saying that you would like to go to Ohio.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-07

December 7th. 3

Henry G. McCormick, Esq. Pres.  
Williamsport, Penna.

Dear Sir:-

We have your favor of the 6th. inst., and in reply  
beg to state that the exhibits you refer to, namely, the map and  
estimate, form part of our contract. It must, however, be under-  
stood that we undertake to run the lines in the places indicated,  
provided we are able to get the permit from the owners of the pro-  
perty on the route. Our estimate does not cover any payment for  
this right, and should we be unable to get past any particular  
point, we shall look to your Company to make the necessary arrange-  
ments to enable us to do so.

In sending our contract please give us a note confirming  
this.

You are right in understanding that we will run the sta-  
tion for thirty days after it is started.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-07

December 7th. 3

Messrs. Powers & Woughtman,

City.

Dear Sirs:-

The sample of sulphate of zinc, which you gave me, tested very well indeed, except that there are traces of iron in it. Will you please quote us a price for this article and also sulphate of zinc free from iron, the quotation to be based on orders of half a ton, done up in 25 lb. tin cases. Please send us a sample of sulphate of zinc free from iron. If we gave you orders we would expect to receive the sulphate of zinc subject to its being tested.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. D. Rich, Esq.

Hellefonte, Penna.

Dear Sir:-

Your numerous telegrams, including the long one from Piqua, have come to hand.

Of course all we could do was to judge of the state of the work by the telegram we got here, and which we promptly repeated to you. If what you say is so, I would advise you to go for Mr. Markle and the other gentlemen for sending such an erroneous telegram of this kind.

We are still, however, of the impression that you will find that you are unable to handle so much work without a little better assistance than you now have, as we have never understood that you men could go out and start work without your being present to give them preliminary instructions. Of course we may be in error about this matter, and we are interested to see how long it will take to put up the present stations and form correct conclusions in relation to how our work should be run. I presume if your system fails you will have no objection to trying ours? We are now standing off to see what will be the result. Of course it is our wish that you should be able to run the thing according to your present methods, and if you are able to do so we shall be

most agreenbly disappointed.

very truly yours,

Thomas A. Edison Constn. Dept.

By

8/17

1883-12-07

December 7th. 3

Paul D. Dyer, Esq.

Post Office,

Galveston, Texas.

Dear Sir:-

If you work like a race-horse, and get through the towns you now have to canvass South before Christmas, we will give you a "picnic" after Christmas in the shape of a district in New York to canvass. It will be a kind of a vacation to you.

Yours truly,

A handwritten signature, possibly "S. D.", written in dark ink.

1893-12-07

December 7th,

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We shall have one of the pressure indicators got up  
by John Ott sent to you immediately Hergmann turns it out.  
Mr. Edison will not allow me to send the model away.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Pall River, Mass.

Dear Sir:-

We return you herewith sketch of your clutch which you propose to use at Lawrence. We have ordered Bergmann to go ahead and make the box, leaving you to take care of the clutch part of the business.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.



1883-12-07

December 7th. 3

Edmund Davis, Esq.,

66 Washington Street,

Providence, R. I.

Dear Sir:-

We have your favor of the 5th. inst. If you will  
send proof of the sketch which you propose issuing we shall have  
no objection to your using it, providing we approve of it.

Very truly yours,

*Wm*  
*W*

1883-12-07

December 7th. 3

I. C. Walker, Esq.

care Judge Bunn.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 4th. December.

Your duty at Tiffin is to take in hand the local plumber and his men and teach them how to do our wirework. This you should be able to do without any further assistance from New York. We were able to follow this course at Chamokin and we are able to do it at Tiffin. In fact it is imperative that this should be done, otherwise our expenses will be very heavy in sending men from here and having them do the wiring in Tiffin. The wiring also should not be done for our account. The plumber should be appointed by Judge Bunn, and any material they use we will bill to them if you will notify us when you deliver it over to them.

We have already sent you the new calculations for inside wiring and will send a table for calculating the three wires services as soon as possible.

Use the time sheets of the Insulated Company and send us a specimen of any suggestions you may wish to make and we will have sheets got up for our Construction Department.

The business anyway should not be conducted by you, but

1883-12-07

2  
it should be conducted by the local plumber, under your supervision and direction.

I have ordered the material you speak of and will send it forward as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

Enclosure.

1883-12-10

Battery, Storage

December 10th.

3

G. W. Brewko, Esq.

Clinton, E. Feliciana, L. J.A.

Dear Sir:-

Referring to your favor of the 24th, November, I would state that your suggestion is a practicable one. An induction coil throwing a spark of half an inch with two cells of battery, the whole set up in portable form and having two brushes of wire, would do the work. I have no time at all to experiment on the matter, as my business occupies the whole of my attention.

Very truly yours,

T. A. C.

Edison Lamp Co.

1893-12-10

December 10th.

3

Francis R. Upton, Esq.

East Newark, N.J.

Dear Sir:-

Will you please send to me at 21 Burton Crescent,  
London, W. C. England, a statement of the Lamp Company's affairs  
up to the end of November. I desire this so that I can explain  
intelligently to Mr. Batchelor the exact standing of the Lamp Co.  
I have a letter from him this morning in which he asks me to do  
this.

Very truly yours,

S. I.

Dynamos

1883-12-10

December 10th. 3

M. J. Jones, Esq.

Brockton, Mass.

Dear Sir:-

We have your favor of the 5th inst.

As soon as our engineers have figured on the sketch you sent us, we will write you definitely as to what we can do in relation to the small dynamos. We have them ready to ship, but there is no object in sending them to you until we know exactly how we can place them.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

S. I.

1893-12-10

December 10th. 3

W. J. Garrison, Esq. Treas.-  
Boston, Mass.

Dear Sir:-

We have your favor of the 7th. inst..

We have written Mr. Rich with relation to the Cornwall  
Heat Regulators, and as soon as we hear from him will remit for sa  
same. At the present time we have no bill for them in our office.

With relation to J. W. Bailey & Son's bill the letter  
you enclose is the first that we have heard of it. In fact we  
have no bills on our books for the Brockton central station.  
As soon as we can get word from Mr. Rich in relation to these  
matters we will liquidate the claims. Meantime we must request  
that you do not send checks for same, as there may be some reason  
for their not being paid.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

Telegraph - Gen.

1883-12-10

December 10th.

3

S. B. Harvey & Thos. Hearsby,  
403 Pioreo Street,  
Phila. Penna.

Dear Sirs:-

Referring to your favor of the 4th. inst., the best  
way to learn telegraphy is to go into a telegraph office as a  
telegraph boy and pick it up in that way.

Yours truly,

T. A. J.



1883-12-10

December 10th. 3

Messrs. Markle & Ball,

33 Congress St.,

Detroit, Mich.

Dear Sirs:-

We have your favor of the 7th. inst., and your wishes in regard to estimates shall receive our attention.

Mr. Cooke will not be withdrawn from your territory until he gets through.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-10

December 10th. 3

W. D. Rich, Esq.

Dear Sir:-

The Bellefonte people object to the  
use of asbestos roofing. I presume you will settle this matter  
with them.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1113-12-10

December 10th. 3

W. D. Rich, Esq.

Dear Sir:—

You may remember of my speaking to you about the boilers at Lawrence. We have a letter from Mr. Lord in which he says:—

"I know that when we feed our boilers with cold water the steam is so damp it will not do much more than half duty, although the pressure remains constant or nearly so."

I think Mr. Lord claims that the trouble is with the injector connections to the boiler. Will you please let me know what you propose to do in the matter.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1873-12-10

December 10th. 3.

W. D. Rich, Esq.

Dear Sir:-

We enclose you herewith letter from Mr. Garrison, together with bill and letter of J. W. Bailey & Son.

Will you please let us know per return about the Corn-wall Port Regulators and J. W. Bailey & Son's bill, as if the claims are correct we want to pay them. It gets us into rather bad odium to have matters stand over.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

Enclosure.

1883-12-10

December 10th. 3

A. Stuart, Esq. Secy.  
Cincinnati, Ohio.

Dear Sir:-

Referring to your favor of the 6th. inst., you will have  
and this have received information to the effect that our Superin-  
tendent has started the work at Piqua.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-10

December 10th. 3

W. J. Hammer, Esq.

Berlin, Germany.

Dear Sir:-

Referring to your letter with date, I think if you will look up my patents you will find that one of them covers a patent for taking care of the irregularities in a gas machine.

DYNAMOS. The "H" machine is tested for 400 amperes. 500 lights means nothing, suppose they were 50 candle lights. Please talk amperes. We have Butcher the carrying power in amperes. Since you received the model "H", we have reduced the resistance of the armature by using larger wire, thus raising it up so that it runs cool with 400 amperes on it. You people were in such a hurry to receive your model, that we were compelled to ship you the first machine we had, and because there was considerable delay in making the shipment you seem to ~~get~~ the impression that we were not paying attention to you. If you had left us to ship you what we considered our best machine, we should not have shipped the 400 ampere machine, but would have waited at least a month after the date that we made the shipment.

We can send models of a half horse power and one smaller

1913-12-10

size motor for sewing machines.

With relation to the lamp factory, I note what you state as to the desirability of having your lamp factory in Germany itself. I will send you the apparatus that you may order, but it will be quite impossible for us to supply your Company with any men. Our staff has already been reduced too much by sending out our assistants to Europe, and we must really look to ourselves in relation to this matter. We have now reduced the price of the ten candle lamps to 30 cents. As we make more of them we shall probably reduce the price further, but the shrinkage in the manufacture of the lamp is probably greater than in any other.

We do not use any "P" Lamps at all to speak of in this country.

I will have copies of estimates and plans sent forward to you in the course of a week or so. You will be able to get information in relation to these matters from Mr. Insull, who leaves here on Tuesday.

We do not propose putting the three wire tubes in the downtown district, as the whole of that district is now covered with the two wire tubes. We are, however, arranging to build another station uptown, which will be run on the three wire system.

All our small town plants, whether underground or overhead, are

also motor for starting machine

3

run on the three wire system.

3

Very truly yours,

T. A. G. G.



1813-12-10

December 10th.

3

Colonel C. Goddard,  
City.

My Dear Goddard:-

I have your memorandum of the 8th. inst.

I was under the impression that you were still out of town, as the estimate has been waiting here sometime.

The mere fact of my being away will not prevent your getting estimates made out here.

Tate will communicate with you as to the estimate.

Many thanks for your kind wishes as to my trip.

If there is anything that I can do for you over there, if you will address me care of The Western Electric Co., 59 Moorgate Street, London, E. C. England, I will have great pleasure in attending to your requests.

Very truly yours,

S. J.

1883-12-10.

December 10th. 3

Colonel G. Goddard,  
City,

My Dear Colonel:-

I got your letter written Saturday this morning, and am sorry that I could not see you prior to your starting for Boston. I am now just in receipt of your letter of Sunday night.

My Address in London is, 21 Burton Crescent, London, W. C. England.

I shall be very happy to attend to any matters for you there. Please drop me a line stating what you want me to do as early as possible, as my stay in London depends entirely upon how long I shall be kept by certain business I have to attend to.

My cable address is "Insull". In writing me please mention your cable address, in case it should be necessary for me to use the wire.

Thanking you for your very kind wishes, and hoping that you will have a pleasant Christmas, believe me,

Very sincerely yours,

*S. I.*

1883-12-10

December 10th.

3

Secretary,

Edison Electric Light Co.

74 Coleman Street,

London, E. C. England.

Dear Sir:-

I beg to advise you that my Private Secretary, Mr. S. Insull, will arrive in London about the 20th. inst., and will in all probability be in Europe about a month.

While he is there I trust that he will be able to make arrangements with you for the settlement of my patent account, and also hope that he will be able to get a revision of my contract with you in relation to patents, as in its present form there are many objections to it. He will explain to you when he calls on you what I desire to achieve in this connection.

Very truly yours,

J. A. E.  
J

1883-12-10

December 10th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batch:-

Yours of the 25th. ulto. came to hand this morning.

I will have all the data as to accounts with me when I arrive in Paris. I have got a variety of matters that I want to go into with you there, but the main thing is to show you how necessary it is, alike for our business and your own interests, to come back here. Knowing your wishes in the matter I do not think you will need my persuasion.

Write me to London, saying whether you will be in Paris right along from about 27th. December. I hope to get there by New Year's anyway.

My London address is Samuel Insull, Jr., 21 Hurton Crescent, London, W. C. England.

Very truly yours,

S. I.

1883-12-10

December 10th. 3

Compagnie Continentale Edison,  
Paris, France.

Dear Sirs-

Referring to your correspondence as to the prices I have quoted for lamps and the fact of my having entered into competition with your factory as stated by you, I beg to advise you that my Private Secretary, Mr. Samuel Insull, will be in Paris early in January, and will call on you with relation to the matter, and I trust will be able to make some arrangement satisfactory equally to you and myself.

Very truly yours,

J. A. E.

1883. 12. 10

December 10th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 5th. inst., I informed  
Mr. Oakley that we should no longer require his services, as I  
understood from you that he was hardly good enough for our work.

Yours truly,

Thomas A. Edison, Genl. Mgr.

By



1883-12-10

December 10th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 7th. inst., we have quite a stock of wire ordered, which of course must be used up before we start in with the straight rods which you suggest for interior use in stations. The Ansonia people could make the wire for us in twenty foot lengths as they do for the Tube Co., but we would prefer ordering it in twelve foot lengths, as it can be handled in shipment much easier in the latter lengths.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-10

December 10th. 3

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 6th. inst., and in reply beg to state that the interpretation we put upon our contract with you is exactly what we have always understood it to mean.

We do not understand what you mean as to the engine pulleys. Do you mean the pulleys on the 8<sup>1</sup>/<sub>2</sub> x 10 or the 14<sup>1</sup>/<sub>2</sub> x 13 engines as being all right, if we send you 10 inch pulleys on the dynamos, that is do you want 10 inch pulleys on the spare dynamos or on the main machines?

With relation to the use of 12 inch bolts, we have very great respect for the opinion of Mr. Sims, but we must confess that we prefer that our engineers should decide all questions in relation to the engineering of our stations. When we think that our office talent is deficient, we may possibly call on Mr. Sims for his opinion in the matter.

We have written to Mr. Rich in relation to your boilers. He is now in Pennsylvania. Of course if there is any trouble, for which we are to blame, we will fix it.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*T. A. Edison*



1883-12-11

Dec. 11th,

3

Mr. W. Taylor & Co.,

Willow Springs, Jackson, Co.

Oregon.

Dear Sirs:-

Replying to your letter of the 24th, inst. I beg to say that Professor Price, of San Francisco, is in my opinion the most trustworthy assayer in the United States, and I would suggest your communicating with him.

Very Truly Yours,

*Wm*  
*BE*

1883-12-11

Dec. 11th,

3

Mr. W. S. Andrews,

Gen. Electrical Engineer.

Box 565 Fall River.

Dear Sir:-

We have your letter dated at Lawrence of the 7th, inst. in relation to sending Mr. Leonard to Ohio.

In reply we beg to say that the management of the Electrical Station is entirely in your hands. And you must dispose of your men as you think best.

In regard to the number of Feeders in the Williamsport installation, we had a new canvass made of this place as the one we had in the Office was an old one made by the Light Co. We are now having a new Electrical Determination prepared, and will advise you to-morrow by wire as to the number of feeders. It is <sup>over head</sup> ~~a hand~~ installation.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

ADJ

1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer,  
Box 565 Fall River,

Dear Sir:-

In reference to your letter of the 9th, inst. we do not think it at all likely that Piqua and Middletown will be ready as soon as Tiffin is finished. At Middletown they have not yet secured the lot for Central Station purposes. And the work on Piqua has only just been started, either Bellefont, or Mt. Carmel will follow, after Tiffin Piqua may come in about the same time as Hazelton, but Middletown will certainly be the last on the list.

In relation to Spencer please note the attached letter, you better start him to work at a salary of ten Dollars per week, we to allow his railway fares.

Please return Mr. Spencer's letter for perusal.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By



1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer,

Box 865 Fall River.

Dear Sir:-

In regard to books of questions and answers, we do not in each case take receipts for them. Conant Doubleday & Leonard, such and a set, but we cannot at the moment remember whether any of them were returned or not. In any event it would be as well to issue a caution.

In regard to Readers at export there are four.

Very Truly Yours,

Thomas A. Edison, Construction Dep't.

By

*ALY*

1883-12-11

December 11th, 1883.

Gustav Solder, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

Referring to the attached letter from Mr. Dwelley, in which he complains of the workmanship on the second "H" dynamo at the Flint Hills, please read same and let me have your answer at the earliest possible moment.

Yours truly,

The Edison Machine Works,

By *W. J. A. J.*

1883-12-11

*Steam Engines*

\*Dec. 11th,

Mr. Frank S. Marr, Treas..

Edison Electric Illuminating Co.

Sunbury, Penn.

Dear Sir:-

Mr. Edison has requested me to write you, suggesting that you make sure that your water supply for Boiler will not freeze up this winter. Mr. Edison states that it is his opinion it will be affected by frost. Have the said mains been laid yet?

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

*T.A.E.*

1883-12-11

December 11th. 3

E. W. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 7th. inst. addressed to Mr Insull, in which you state that we are unbusinesslike for delaying your orders.

We would beg to remind you that this material is not made by us and therefore we only indirectly control its production. Upon the receipt of your letter we immediately wrote to Messrs. Hoffmann & Co. censuring them for the delay to your material and the inconvenience they put us to thereby, and in replying to us they admit the fault, and are hurrying your orders to the greatest extent possible.

There were shipped to you to-day, 10 extra bottles, 10 extra pairs zincs and 10 sets of rubber fixtures each for the 12 light, 25 light, 50 light and 100 light motors, also five 12 light meters complete and fifteen 25 light meters complete, and as we have stated above the balance of your order is receiving our special attention.

The cost of the meters which you now have on hand at Lawrence, namely, 25 for 12 lights, 25 for 25 lights, 10 for 50 lights, 10 for 100 lights and 5 for 100 lights, together with the

1883-12-11

2

extra bottles, plates, zincs and rubber parts, amounts to about \$375., and in order to prove to you that we are not short on our ~~contract~~ <sup>contract</sup>, we would refer you to same, which calls for meters of different capacities from the above, yet amounts to only \$530. The changes in the size of the meters were made of course at your request.

In view of the above facts we should be glad to receive from you your check for \$3,000., as requested some few days ago. There is sufficient margin left after paying us this money to enable you to discuss safely any matters wherein you think we have failed to live up to our contract.

The Lawrence installation has been pecuniarily disastrous to us, and we have urgent use for the money which we now ask you to send, and we trust that we can rely upon its receipt within the next few days.

Very truly yours,

*Law*



1883-12-11

Meters

Dec, 11th, 3

Mr. H. Ward Leonard,

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

In relation to form of Meter Blank which you prepared  
some little time ago, will you be kind enough to send me a copy.  
I believe you sent me a specimen, but it has been mislaid in the  
office here.

Very truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. T.

1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Box 505 Fall River,

Dear Sir:-

Replying to your letter of the 9th, inst. in which you asked us to get ~~per~~mann & Co. to make a small cheap four point switch, similar to our ~~Best~~ House changing switch. Will you please send us a diagram of what you want drawn to scale.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By

A.O.L.

1883-12-11

December 11th.

3

L. Weinschenk, Esq.

50 West 24th. Street, City.

Dear Sir:-

In reply to your note of the 10th. December, I regret very much not having been able to keep the engagement I made with you, but I was called away.

I will meet you on Wednesday (to-morrow) at ten o'clock.

Very truly yours,

*Wm. J.*

1883-12-11

Dec: 11th,

Geo. H. Bliss, Esq, Gen, Sup't,

Western Edison Light Co.,

52 Wabash Ave. Chicago, Ill.

Dear Sir:

We have your letter of the 8th, inst. in regard to Lima. We will be ready for the parties just as soon as they are prepared for business.

Very Truly Yours,

Thomas A. Edison, Construction Co.

By

*T. A. Edison*

1893-12-11

December 11th. 3

W. H. Twolley, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

We learned this morning that you sent an order to the Edison Electric Light Company for 500 sixteen candle power lamps for use in connection with the Fall River central station.

We would now call your attention to the fact that the Fall River installation is for ten candle power lamps, Fall River being a coal gas town, we supply lamps of this power, and they, in practice, are always run at twelve candles, which will give more light than any five foot gas burner in your City.

We would strongly advise your recalling this order, or possibly there has been a mistake made and sixteen candle power lamps ordered instead of ten.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*any*

1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer.

Box 565 Fall River.

Dear Sir:-

*Kirby*  
~~Query~~ Replying to your letter of the 9th, inst. in regard to  
don't you think it would be a good idea to simply state  
incidently to him, that Mt. Carmel, Hazelton and other places  
are now being started, and that he could do well at these differ-  
ant points, "on his own hook."

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By *AOJ*

1813-12-11

December 11th. 3

Messrs. Marble & Hall,  
33 Congress Street, W.,  
Detroit, Mich.

Dear Sirs:-

In further reply to your favor of the 7th. inst., we beg to say that we have the map of Grand Haven prepared and will send it to you to-morrow to obtain option on lots for central station purposes. After receiving information in regard to lots, and choosing therefrom the one best suited to our business, it is only a matter of a few days to supply an estimate. We should therefore be glad to know if you would like us to send you the estimate for Grand Haven, which you could hold yourself until prepared to present it to the local people, or if you would prefer us allowing the matter to remain in abeyance in this office until we receive instructions from you to go ahead with the work.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*A. E. S.*

1883-12-11

Dec. 11th,

D. M. Osborn, Esq.

Auburn, N. Y.

Dear Sir:-

We send you under separate cover, a Blue Print of Auburn. But in addition to supplying us with information in accordance with the attached form, we wish you would be kind enough to look over the district we propose wiring, and ascertain if there are any obstructions which would prevent our taking the course we propose. We propose so laying under-ground mains in this place, and their course is indicated by a red line.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By

OOJ



1883-12-11

December 11th. 8

A. Staart, Esq. Secty.  
Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 8th. inst. in reference to the new form of special report which we sent you to have filled out for a number of towns. We do not wish you to send a man around specially to obtain this information, but we presumed that you were in communication with local parties who could furnish the information we required. As you will notice the form is much more complete than the old one which we used.

If you can obtain the data for us, as stated above, we should be glad to have it, otherwise we do not wish you to go to any expense in order to get it.

We return herewith Mr. Dyer's report on Lima as requested.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Gray*

1883-12-11

Dec. 11th,

Mr. P. E. Shaw,

care Ohio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. O.

Dear Sir:-

Replying to your letter of the 6th, inst. we beg to say that we cannot send the canvasser to Pottsville as soon as the canvass of Circleville is completed. This will probably be in a weeks time.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.

1883-12-11

Dec. 11th,

Mr. P. E. Shaw,

care Ohio Edison Installation Co.

North West Cor. 3 & Vine Sts. Cinn. O.

Dear Sir:-

We have your letter of the 6th, inst. including the communication from Mr. Bichter as to the progress at Mt. Carmel, which we beg to return unrequested. We are getting ahead at Mt. Carmel just as fast as we possibly can. But of course we cannot expect the local people there to see the difference between the erection of a house, and the installation of an Electric Light Plant. It will not be very long before these people are in a better humor.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.

1883-12-11

December 11th. 3

H Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 7th. inst. in which you ask for a copy of the book of Questions & Answers.

We would beg to remind you that Mr. Edison gave you a copy of this book when he was at Brockton.

The blue book containing table of conductors you can obtain from Mr. Andrews.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. A. H.*

1883-12-11

December 11th.

3

Sir John Lubbock,

15 Lombard Street,

London, E. C. England.

My Dear Sir John:-

This will introduce to you my Private Secretary  
and business representative, *Mr. Saul Knell* who goes to London to spend Christmas  
there. Whilst he is on your side of the Atlantic he will have  
various business matters to settle with the Edison Electric Light  
Company of London.

Any assistance that you can render him will be greatly  
appreciated by,

Yours very sincerely,

*T. A. C.*

1873-12-11

December 11th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

Mr. Edison has <sup>requested</sup> ~~asked~~ me to write you, suggesting that you make sure that your water supply for boiler will not freeze up this Winter. Mr. Edison states that it is his opinion it will be effected by Frost. Have the street water mains been laid yet?

Very truly yours,

S J  
PS

1883-12-11

Dec. 11th,

Mr. Chas. P. Lyon,

Circleville, Ohio.

Dear Sir:-

We have your letter of the 7th, inst. The canvass of Wellsboro came to hand to day.

In regard to when you should commence canvassing a town, you should always start work at dusk, just as the people commence lighting.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.

1883. 12-11

Dec. 11th,

John Lucas, Esq.

Hawks Nest, P. O.

West, Va.

Dear Sir:-

Replying to your letter of the 4th, inst. in relation to running a machine for boring coal by Electricity, I beg to say that the electrical part is hardly practicable. Unless wires run through the drifts to furnish power and light, from a Dynamo at the existing works.

Very Truly Yours,

J. A. E.



Dec, 11th,

3

Straight Line Engine Co.

Cor. Madison & Fayette Sts.

Syracuse, N. Y.

Dear Sirs:-

We have your letter of the 6th, inst. in relation to a Pattern Maker. We regret to say that we have not a man in our employ at the moment whom we could send. But are in communication with a first class pattern maker, whose services we expect to secure. On this subject will write you more definitely in a day or two.

Very Truly Yours,

Madison Machine Works,

By

A. O. T.

1883-12-12

December 12th. 3

Gen. Anson Stager,  
care Mc. Ginnis & Peering,  
30 Broad St. City.

Dear Sir:-

The following is a list of towns in Southern Illinois  
which I would propose to canvass and make estimates for for your  
Company. Please advise us if we shall go ahead.

Alton, population	1,578,
Bellville	" 10,000,
Cairo,	" 4,014,
Champaign,	" 5,104,
Springfield,	" 19,740,
Decatur,	" 9,540,
Jacksonville,	" 10,927,
Lincoln,	" 5,875,
Witchfield,	" 4,320,
Paris,	" 4,370,
Quincy,	" 27,275.

Very truly yours,

*J. H. J.*

December 12th. 3

Charles T. White, Esq.

104 Liberty Street, City.

Dear Sir:-

Have you on hand any sulphate of zinc free from iron and would you be kind enough to send us a sample? If the material is satisfactory, we would like to give you an order for a quantity of it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Ray*

1883-12-12

December 12th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have your letter of the 6th. inst. requesting us to order four more plug switches for bank of test lamps, which we have done.

In regard to pulleys on the "S" machine, this dynamo is run in connection with a <sup>1</sup>9 2 x 12 engine, <sup>and</sup> which must have a 10" pulley. If we use 12" pulleys on the "S" machine, the Armington & Sims people would have to put a 37" pulley on their <sup>1</sup>9 2 x 12 engine, and as the 47" is their standard pulley, we do not wish to make a change.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *A. J. [signature]*

1883-12-12

December 12th. 3

A. B. Chandler, Esq. Pres.

Fuller Electric Light Co.

Union Square, City.

Dear Sir:-

Did you ascertain about Smith's wages? Please give me his full name, as I have forgotten it.

Very truly yours,

*JAC*  
*7*

1883-12-12

Dec. 12th,

Frank S. Marr, Esq. Treas.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:

We beg to enclose herewith statement showing the amount due us at the present time by the Sunbury, Co. It is chiefly made up by the balance due on contract, the other items are for wire, and some small fixtures, which we send at your request.

Very truly Yours,

Thomas A. Edison, Constn. Dep't.

By

A. C. S.

1883-12-12

Sunbury

December 12th. 3

Frank H. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

In relation to your letter of the 4th. inst., in which you state that the belt you are using on one of the Sunbury engines shows signs of wearing and should be replaced, and that it was only put in service temporarily, we beg to say that we cannot understand why the belt should have given out so soon, nor have we any recollection of it having been placed there with the understanding that it was to be removed and another one substituted. Our Superintendent, Mr. Rich, states that the belt was respliced at Sunbury and that the work was well done. It is exactly the same article that we are using in connection with other installations, which latter are giving perfect satisfaction.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

907

1883-12-12

December 12th. 3

Col. C. Heddard,

Care Time Telegraph Co.

Temple Court, City.

Dear Sir:-

We beg to enclose herewith our estimate No. 67, A for the erection of a Central Station Edison Electric Light Plant at San Jose de Guatemala of 400 lamps capacity of 14 candle power each, and amounting to \$23,445.91

We also send you map of San Jose de Guatemala with the district marked off.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*Ray*

Enclosures.



1883-12-12

December 12th. 9

Charles T. Hughes, Esq.

Poughkeepsie, N.Y.

Dear Sir:-

We beg to enclose herewith our estimates Nos. 77, 77,A and 77,B, for the erection of an Edison Electric Light Central Station Plant at Poughkeepsie, New York, and amounting to \$323,649.40--\$40,007.42 and \$34,786.65, together with their attended maps.

In relation to estimate No. 77, by referring to the Street Installation, you will see that the district we propose wiring, in the event of his estimate being accepted, covers 2,648 lights. Estimate 77,A provides for 3,411 lights in the district and estimate 77,B for 1,630 lights. By referring to the maps accompanying these estimates you will find the course of the street installation marked thereon. It will therefore be unnecessary for us to go into a lengthy comparison, as it only remains for you to choose the one you consider best suited for the purpose.

In submitting these estimates it is of course understood that the local Company obtain all necessary permits for us to open streets and lay our tubes, in accordance with whichever one they may accept, and we will not in any way be responsible for any failure to obtain these, which might prevent our laying mains, as

1883-12-12

shown on the map.

Trusting these will meet your requirements, we are,

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*W. A. S.*

Enclosures.

*W. A. S.*

*W. A. S.*  
*W. A. S.*  
*W. A. S.*

*T*

*W. A. S.*  
*W. A. S.*

1883-12-12

December 12th. 8

John Hoskin, Esq.

6 Ledger Building,

Phila. Penna.

Dear Sir:-

We have your letter of the 11th. inst., and in reply beg to say that if the speeds of both dynamos do not vary much from what they are set up at and the resistance boxes are proportioned so that the load will divide according to the capacity, they will run perfectly together. We run them this way in our central station plants.

Very truly yours,

*J. C.*

1893-12-12

December 12th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N.Y.

Dear Sir:-

We beg to enclose herewith plan of the central station we propose erecting at Poughkeepsie, also estimate of daily running expenses and statement of probable profits on a \$50,000. capitalization, which latter shows an excellent percent for dividends.

We also enclose the remaining estimate for this plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosures.

1873-12-12

December 12th.

3

Messrs. Kent & Auerbach,

3 Broad Street, City.

Gentlemen:-

I understand the case of Smith vs. Edison is on the Calendar and will be soon reached for trial. I desire to associate with you in the suit Mr. J. C. Tomlinson. You will be good enough to allow him to examine all the papers, and consult with him as to the conduct, management and trial of the suit.

Very truly yours,

*John*

1893-12-13

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 565,

Fall River, Mass.

Dear Sir:-

We have your letter of the 11th. inst. in reference to the belts for driving the two <sup>4</sup>/<sub>2</sub> dynamos being too long.

The reason that those belts are of improper size is that the dynamo has been set 11<sup>3</sup>/<sub>4</sub>" too near the engine, and not in accordance with our plans, which say 10' from center to center.

Would it not be possible to move those dynamos back 11<sup>3</sup>/<sub>4</sub>"?

If not, we would prefer having the belts respliced.

Yours truly,

Thomas A. Edison Constatn. Dept.

By

*A. E. Constatn.*

1883-12-13.

December 13th. 3

E. H. Lord, Esq. Treas.  
Lawrence, Mass.

Dear Sir:-

We have your telegram of yesterday instructing us to send 10" pulleys for the "6" dynamos.

In this connection we beg to say that we always use a 12" <sup>Pulleys</sup> ~~when~~ when an U<sup>1</sup> 2 x 10 engine is driving this machine. At the Pearl Street station in this city we have run a 14<sup>1</sup> 2 x 13 engine at 350 revolutions for seventeen consecutive days with perfectly satisfactory results.

The U<sup>1</sup> 2 x 10 engine at Lawrence would have to be run at about 325, if you use 12" pulleys, and we do not consider that 325 revolutions per minute is too high a speed for this small engine, when we have obtained such results as above stated from the 14<sup>1</sup> 2 x 13. Furthermore, if you use 10" pulleys you will have trouble by the belt slipping, inasmuch as it does not form as good a contact with that size of pulley as it does with the 12". If, however, you still desire to use 10" pulleys we shall be glad to send them on immediately you advise us, but we consider it advisable to mention the above facts before filling your order.  
Very truly yours,

Thomas A. Edison Constn. Dept.

By *ASH*

1893-12-13

Dec. 13th,

3

Gustav Soldan, Esq.

Edison Machine Works,

104 Goerck, St. City.

Dear Sir:-

Replying to your letter of the 11th, inst. wherein you state that it would be advisable to have a complete set of drawings for the Straight Line Engine. We beg to say that we have a complete set made, and the letter sent you stated that they were making the patterns.

Verym Truly Yours,

Edison Machine Works.

By

AOJ



By

1883-12-13

December 13th. 3

Personal.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Can you give us any idea as to when the Fall River station will be ready to start? We are aware that there is a quantity of electrical material which has not yet gone forward, but if you can make a start and introduce these fixtures afterwards it will be of very great service to us financially.

We presume you have heard nothing from Mr. Rich as to when Tiffin will be ready for you men. We have to-night asked him this question, and will advise you upon receipt of his reply.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-13

December 13th.

3

W. C. Smith, Esq.

542 Pearl Street, City.

Dear Sir:-

Could you possibly come to this office to have an interview with me sometime to-day. Let me know by bearer what time we I may expect you, in order that I may be in when you arrive.

Very truly yours,

*J. A. K.*

1883. 12. 13

Dec. 13th, 3

W. S. Andrews, Esq.

Box 505 Pull River.

Mass.

Dear Sir:-

We have by ur letter of yesterdays date in regard to Williamsport and Newburg, we wired you on the 11th, inst. that there were 4 Feeders at Newburg. And yesterday we sent you a telegram, stating that there were 5 Feeders in the Williamsport Installation. Since sending the latter telegram, we are in receipt of a letter from the Williamsport Co. stating that they have not yet secured a lot, and asked our indulgence until we hear further from them. In view of this fact we wired you this morning, to do nothing to Williamsport material, until you were advised further from this Office. We will send you the information you desire at the earliest possible moment.

Very Truly Yours,

Thomas A. Edison, Constr. Dep't,

By



1883-12-13

December 13th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

Can you tell us when the Tiffin station will be ready for our electrical staff to commence work on the inside wiring? We would like to start them on this work at the earliest possible moment. Will you kindly send us a letter stating exactly the condition of the advancement of the central stations at Hazleton, Mt. Carmel and Bellefonte.

Yours truly,

Thomas A. Edison Constn. Dept.

By.



1873-12-13

December 13th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

We send you herewith two plans of the Bellefonte station, one marked "A" having been prepared from the sketch you sent us giving the details of your proposed arrangement, and the other marked "B" is one which has been prepared in this office.

By referring to these plans you will see that both buildings are exactly the same size, and the the same capacity of plant is obtained without increasing the length of either building.

Were we to adopt the plan which you sent us and put in the engine and boiler (upon which we have made a cross) it would be impossible for the engineer to attend to his engine and look after his steam, *without very great inconvenience*

We have marked with the letter "A" on our plan the positions of the boiler and engine which we now propose to install, and by reference to same you will see that it is a much more convenient arrangement than the one you suggest. The only difference it makes in the interior arrangement of the station is to reduce the length of the office from 13' to 11' 4". Mr. Andrews' brings his wires in at the skylight, and you will see that there is plenty of room for electrical apparatus along the walls of the building and away from the dynamo. We therefore think it desirable that you

should adopt this plan, and shall be glad to have any comments you may wish to make upon it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosures.

1893-12-13

Dec. 13th,

3

W. D. Rich, Esq.

Central Edison Electric Ill. Co.

Hazleton, Penna.

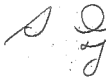
Dear Sir:-

We have your letter of the 9th, inst. in regard to boiler plan of Middletown and Piqua. We believe that this style of setting is to be used only where Bituminous Coal is burned, we note your objections to this setting however, and shall be glad to have you use your own judgment as to the way in which it should be done.

Very Truly Yours,

Thomas A. Edison, Constn. Dept.

By



1883-12-13

December 13th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 11th, inst in regard to the extension of the Tiffin plant, and during the past few days have received all your telegrams urging upon us the necessity of shipping the material at once.

Your ideas as to the amount of work necessitated by this extension are altogether too small. It will be impossible for us to obtain the copper under two weeks, and in view of this fact we have wired you that we cannot keep our men there, as we understand from our Superintendent that all the pole lines at Tiffin will be finished on Saturday next.

We have wired you to-night that the cost of this extension will be \$3,748.17, and we beg to enclose herewith our estimate for performing the work and supplying the material. Upon its acceptance, we will immediately take active steps to make the desired addition to your plant.

Mr Rich is altogether mistaken when he states that it will not increase the cost of feeders. The extension necessitates a new feeder and consequently additional electrical apparatus in



1883-12-13

2

the inside of the station.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

Enclosure

1883-13-13

December 18th. 3

M. C. Rollnap, Esq. Treas.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We have your letter of the 12th. inst., asking us for a list of prices for which we will furnish tubing and wires for service, and in reply we beg to state that we will supply you with this material at cost price.

The way the Fall River and Lawrence Company did was simply to give us an open order to supply them with as many services as were necessary, and we billed the material to them at the rate as stated above.

If you will give us a similar order, we shall be very glad to furnish you with whatever services you require. They certainly should be put in at once, as it will save a great deal of labor in the future, when you might possibly have to contend with heavy frost.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-13

December 13th. 3

Messrs. Bergmann & Co.

203 Avenue B, City.

Dear Sirs:-

In relation to the attached letter from Messrs. Powers & Weightman, do you not think it would be a paying business for you to carry a stock of say 1,000 lbs. of this material, for the purpose of supplying our numerous central stations with what they require? They would consume considerable in the course of a year, and inasmuch as you could purchase it for fifteen cents a pound and sell it for twenty five cents a pound, the enterprise would remit good profit. Let us know if you will do this.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*aes*

Enclosure.

1893-12-13

December 13th. 3

Paul D. Nyar, Esq.

Tremont House,

Galveston, Texas.

Dear Sir:-

We have your interesting letter of the 11th. inst., and in relation to your obtaining options on lots we think it would be a good idea for you to get exact sizes and prices of as many lots near the center of each town as you can.

In regard to the amount you are paying for your expenses at the present time, if you will let us know how much it is in excess of the allowance made you, we shall be very glad to credit your account with the difference.

You have apparently missed sending us a portion of your letter or else you have forgotten to sign it.

Have you ever received the new form of special report, which we sent you about a month ago?

Mr Insull sailed for Europe yesterday to be gone until the latter end of January. We presume you received his letter telling you to go home for Christmas.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. E. G.*

1893-12-13

December 18th.

3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.

65 Fifth Avenue, City.

Dear Sir:-

I have the pleasure to hand you herewith account amounting to \$7,788.74, being amount due my Construction Department, also account amounting to \$1,115.00 for sundry amounts paid by me on the Light Company's account.

In addition to the above there is the amount expended by me on electric railroad experiments, for which you already have my account, amounting to \$36,541.80, and also about \$25,000 expended by me at the Edison Machine Works in improving your dynamo machines, with the result of decreasing the cost on some of the types of dynamos about twenty five per cent, and increasing the number of lights obtained from such machines about forty per cent.

With relation to my railroad experiments, inasmuch as the inventions in connection therewith have been transferred to the Electric Railroad Company, I presume my accounts in relation to this matter must stand over. Although by stating this I wish it to be clearly understood that I consider that I have a valid claim

1883-12-13

2

against the Edison Electric Light Company for the amount I have expended in this connection.

As to the cost of the dynamo experiments, in consideration of the kindness shown by the Light Company in carrying my stock for me, it is not my intention to ask them to reimburse me to the amount referred to, more especially as the rendering of account of this character is usually the cause of great irritation.

In this connection I may mention that I am now experimenting with the object of increasing the capacity of the central station dynamo but inasmuch as my means are limited I cannot conduct the experiments on any such scale as the importance of the matter would warrant, and I would urge upon your Directors the necessity of placing at my disposal \$30,000. for this purpose. Of course it is very difficult to estimate the exact cost of such experimentation, and I mention this amount as a limit and not as giving an indication that the experiments would cost as much.

I shall be glad if you will arrange to pay the small account due (\$1,118.60), and my Construction Department account (\$7,700.74) at an early date, inasmuch as the latter must of necessity receive additions or deductions from month to month.

I would suggest that the payment of \$5,000. on account

1893-12-13

3

be made immediately.

Very truly yours,

J. A. E.  
y.

Enclosures.

1983-12-13

December 13th, 1983,

F. S. Hastings, Esq. Treas.

Dear Sir:-

In relation to the attached note, under date of November 18th. for \$3,000., payable 90 days from date to our order, please make same payable to the order of Thomas A. Edison, and debit our account with the amount.

Very truly yours,

The Edison Machine Works,

By

*Aes*



1893-12-13

Dec. 18th, 1903

J. F. Bump, Esq. J. P.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 10th, inst. in reference to wiring. We are of the opinion that you have made a great mistake by pursuing the course suggested by Mr. Stuart. Our experience has been, that it is a fatal error for the local Company to have anything whatever to do with the wiring.

In regard to lighting blocks, 44, 46, 48, and 50, we to day are in receipt of a telegram from Mr. Stuart, asking us to light blocks, 44, 46, 47, 48, but he makes no mention of block 50. We will send to night an estimate for this work, in accordance with Mr. Stuart's telegram, and if the sum is satisfactory we will order the material and have the work commenced without delay. You must understand that it is a very unsatisfactory thing to do work of this kind without having an estimate accepted in the regular way. We have no doubt whatever but that our bills would be satisfactory, and accepted when presented to you, if we were to do the work upon that basis of understanding. But in as much as it is not the regular way of doing business,

1883-12-13

2

we prefer to submit an estimate, and upon its acceptance we  
will proceed to make the desired addition to your plant.

Very Truly Yours,

Thomas A. Edison, Constn., Dep't,

By

ALJ

1883-12-13

December 13th, 3

Spencer Sorden, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 11th. inst., and in reply would call your attention to the fact that when you were in New York last Worcester was one of the towns of which you made a memorandum that you were to attend to in regard to obtaining options on lots. In order that it may not again escape your memory, we send you by this mail another chart of this town marked with a circle, within which it is desirable to obtain these options. Upon receipt of this information, we will prepare and submit estimates.

Owing to the press of work, and also on account of having to re-model the Gayorhill estimate, we have not up to this writing been able to dispatch it, but it will be forwarded to you to-morrow and Portland we will send you early next week.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

1883-12-13.

Dec. 13th, 3

W. H. Winant, Esq.

Caro Armour Bros. Banking Co.

Kansas City, Mo.

Dear Sir:-

In further reply to your letter of the 4th, inst., we beg to say that we will require a lot 50 x100, for Central Station purposes. As the ground within the red circle on map sent you is so valuable, we would suggest as the next best point, to obtain a lot the northern portion, of blocks 48, and 49, and blocks C, 7, 50, and 51.

We are very much obliged for the information you gave us in reference to running our pole lines, and we send you this morning another map, which is marked in accordance with your letter and we shall be glad to know if the same meets with your approval. We also send you another map, which has been marked with lines showing the proposed course of underground conductors, in case this class of conductor is considered more satisfactory than over head wires. We would like you to examine this chart, and give us information as to whether permits could be obtained for opening up the streets upon which we propose to run. In connection with the above, we should be glad to hear from you as

as early as possible, in the mean-  
time we remain

Yours Truly  
James A. Baird, Genl. Supt.

James A. Baird, Genl. Supt.  
Central Telephone Co.,  
New York City, N.Y.

Dear Sir:-  
In further reply to your letter of the 11th inst.,  
and to my letter of the 10th inst., for Central Tel-  
ephone Co., New York City, I am glad to hear that  
you are so valuable, and would suggest as the next best thing, to  
obtain a lot of the southern portion of blocks 22 and 23, and blocks  
24, 25, 26, and 27.  
To give you more, I am glad to hear that you have  
as in reference to running out this line, and we send you this  
drawing another map, which is marked in accordance with your letter  
and we shall be glad to know if the same meets with your appro-  
val. We also send you another map, which has been marked with  
lines showing the proposed course of underground conductors, in  
case this class of conductor is considered more satisfactory  
than our hard wire. We would like you to examine this chart,  
and give us information as to whether parties could be obtained  
for opening up the streets upon which we propose to run. In con-  
nection with the above, we should be glad to hear from you as

[INCOMPLETE]

1893-12-13

December 13th. 3

W. H. Andrews, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

We have your letter of the 13th. inst. in reference to pressure indicators, and in reply beg to say that we differ with you very materially.

It is the easiest matter imaginable to keep this adjusted and we think that the more you work with them the better you will like them. Mr. Syngue entertained the same ideas in regard to them as you do when he first saw them, but he has since become thoroughly converted. We think you should wait and work with them awhile before you write them down.

In regard to having the conductors for inside work sent out in straight lengths, we can have any wire which has not yet been shipped out in accordance with your letter, but if it has been shipped it would hardly pay to bring it to New York, have the Ansonia people straighten it and return it to its destination.

In relation to running the 8<sup>1</sup>/<sub>2</sub> x 10 engine at 300 revolutions, we have at our Pearl Street station in this city run a 14<sup>1</sup>/<sub>2</sub> x 13 engine for seventeen consecutive days at 350 revolutions,

1883-12-14

December 14th. 3

J. F. Bunn, Esq.

Tiffin, Ohio.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 12th. inst., and in reply would say that we are very much gratified to learn that you have made arrangements with outside parties for wiring. In your management of this the only point which does not meet with our approval is your having offered a premium to people as an inducement for them to take the light. We really think you will have cause to regret this.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

1873-12-14

December 14th.

3

Fréd Catlin, Esq.

108 Broadway, City.

My Dear Catlin:-

Yours received. Johnson is fixing up a hose and a dynamo giving 2,000 volts to give an exhibition. He has measured the water stream and finds it about 650 ohms, 2<sup>1</sup>/<sub>2</sub>" section per foot.

Very truly yours,

AO7



1883-12-14

*Shanekin*

December 14th. 8

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Mr Edison has requested me to refer the attached letter in regard to regulators for the opera house at Shanekin to you, with the request that you furnish drawings for these devices at the earliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. O. Y*

Enclosure.

1883-12-14

December 14th, '83

Electric Tube Co.

63 Washington Street, City.

Dear Sir:-

We have your letter of the 13th. inst. withdrawing your bids for the street installation in connection with the following points, namely, Hartford, Haverhill, Utica and Governors Island.

In relation to Haverhill, we were on the point of sending an estimate out when we received your letter withdrawing your bid. We shall therefore be glad to receive from you at the earliest possible moment another statement showing what you will charge to do this work, in accordance with the plans you already have.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AOY*

1883-12-14

December 14th. 3

William Schwab, Esq. Pres.

Ht. Carmel, Penna.

Dear Sir:-

In relation to the extension of the pole lines at Ht. Carmel and the alterations which you desire to be made in connection with them, we wired you this afternoon that the cost of making this change will be \$641.07.

We beg to enclose herewith our estimate No. 73, P for this work, and upon its acceptance we will order the additional wire and other material and have the lines erected in accordance with same. We also send blue print showing the proposed alteration of the Ht. Carmel pole lines.

Yours truly,

Thomas A. Edison Constn. Dept.

by

A. C. J.

Enclosures.

1883-12-14

December 14th.

3

John Hoskin, Esq.

6 Lodger Building,

Phila. Penna.

Dear Sir:-

In reply to your letter of the 13th. inst. I beg to say  
that it will require two resistance boxes, and they should be  
connected so that both will move together, but detachable.

Yours truly,

T. A. E.  
4

1883 12-14

December 14th. 3

H. C. McCormick, Esq. Pres.

Williamsport, Penna.

Dear Sir:-

Will you kindly let us know if we can cross with poles through the center of blocks B and C to the northern alley in block D.

We received your telegram of this afternoon giving location of central station.

We hope to-morrow to see Mr. T. G. Detweiler, from whom we had a telegram stating he would be in New York late to-night with the papers in connection with the Williamsport contract.

Very truly yours,

Thomas A. Edison Consn. Dept.

By

A. O. J.

1883-12-14

December 14th.

3

John Ott, Esq.

202 Avenue B, City.

Dear Sir:-

Have you ever made up any more of that duplicating ink?

Yours truly,

Jae  
J.

1883-12-15

December 15th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

We beg to inform you that on the U<sup>1</sup>/<sub>2</sub> x 10 engine sent to Fall River one of the pulleys, we presume the regulator pulley, has only a 7" face, while the other has a U<sup>1</sup>/<sub>2</sub> 2" face. As we drive from both pulleys of this engine and use U" bolts in connection with them, it is necessary that both should have U<sup>1</sup>/<sub>2</sub> 3" face, and it will therefore be necessary for you to furnish us with another pulley for this engine in accordance with the above.

Yours truly,

Thomas A. Edison Constn. Dept.

By A. O. J.

Please hurry the Bill  
forward to E. J.

1893-12-15

December 15th. 3

George P. Cross, Esq.

Pascerag, R. I.

Dear Sir:-

We have your letter of the 12th. inst., and in reply  
beg to say that Mr. Edison would like to have you send him your  
photograph.

Yours truly,

D. I.

Priv Sec.



1883-12-15

December 15th. 3

U. M. Osborne, Esq.

Auburn, N.Y.

Dear Sir:-

Will you be kind enough to send us the exact dimensions  
of the lot which you note on the chart of Auburn as the Simpson lot.

Yours truly,

Thomas A. Edison Constn. Dept.

Ry

A. E. T.

1883-12-16

Personal.

December 15th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

Will you be kind enough to let us know what your opinion is of the pole line work done at Tiffin by Hibler. Is it all good substantial work and what idea have you formed in connection with that part of the installation.

Very truly yours,

J. E.  
J

1883212-15

December 15th. 3

W. D. Rich, Esq.

HawJeton, Penna.

Dear Sir:-

We beg to confirm our telegram of yesterday's date stating that the Williamsport contract had been closed, and under same cover we send you a plan of the Williamsport station, also a sketch showing its position in relation to lot. You will notice that there are some alterations on this plan in connection with the stack. The dimensions as shown are correct, but the portion referred to is not drawn to scale. We will in a day or two send you another map drawn to scale.

We also send you a copy of our estimate, and wish you would be kind enough to fill out as accurately as you can the actual cost of each item.

We cannot as yet give you any information in regard to the number of poles you have to procure, as the course of the conductors is still under consideration and will not be finally decided until next week. It would be as well for you to go to Williamsport at once and arrange about the material for your building, and we will furnish you with the other information at the

earliest possible moment.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. J.

Enclosure, r.

1893-12-15

December 15th. 3

Frank B. Rae, Esq. Supt.

Commercial Telegram Co.

16 Broadway, City.

Dear Sir:-

In reply to your letter of the 14th. inst. we beg to say that we will give you seventeen cents apound for the wire you specified therein.

Please advise us if you will accept this offer.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*T. A. Edison*

1883-12-15

December 15th. 3

James S. Reager, Esq.

care Tiffin Edison Electric Illg. Co.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 13th. inst., and in reply  
her to say that we sincerely regret the disappointment you have  
met with in connections with discounts from Messrs. Bergmann & Co.  
We should be very glad to do all in our power to assist you in  
obtaining the discounts you desire were it not for the fact that  
we have no voice whatever in the management of Messrs. Bergmann &  
Co's affairs. Our only connection with them is that we order  
material from them for our central station work, and we never have  
occasion to order such material as is used for housewiring and  
fixtures which is always supplied by Messrs. Bergmann & Co. to  
the local parties who do the wiring.

If you will allow us to make a suggestion, we would say  
that we think you would be perfectly justified in calling upon Mr.  
Shaw to make good his guarantee, and by this means reduce the cost  
of the fixtures to the point desired.

Again regretting our inability to assist you in the  
matter, we bow to remain,

Very truly yours,

John A. Edison Cash & Co.  
By J. A. E.

1883-12-15

December 13th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Dear Sir:-

We are in receipt of a letter from our Chief Electrical Engineer, Mr. Andrews, and in referring to a book of questions which we have gotten up in order to examine engineers desiring to obtain positions with us, he states that in each case the said applicants for positions state that a boiler should be caulked cold and that the A. & S. engine should have a small load. This is in direct opposition to the views we have entertained in regard to these subjects hitherto, and we address you in the matter that we may obtain you very valuable opinion.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AOJ*

1883 12-15

December 15th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

We have your letter of the 14th, inst., and in reply we wish you would very kindly ask your engineer at Sunbury to send us an exact report as to the trouble he experiences with the belt in question.

We are pleased to know that you have made arrangements for a supply of water?

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. D. J.



1883-12-15

December 15th. 3

Messrs. Harris & Robinson,  
Hartford, Conn.

Dear Sirs:-

We beg to notify you that we today withdraw all estimates we have made up to this writing for the installation of an Edison Electric Light Central Station Plant at Hartford, Conn.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *A.O.T.*

1893-12-15

December 15th. 3

W. J. Jonks, Reg. Manager,

Brockton, Mass.

Dear Sir:-

In regard to supplying you with two 400 light dynamos ~~for the Brockton station and taking back one 500 light dynamo, we~~ beg to say that we will furnish these two machines with regulators, set them up, furnish and put in switches and do all work in connection with making the alteration for the sum of \$1,200.

This bid, however, does not include any change of main shaft or pulleys of engine. We believe you are in communication with Messrs. Armington & Sims in regard to this latter change and that it is your intention to do that portion of the work yourself.

We enclose herewith a plan showing the positions of the engine and dynamos after the change is made. If you desire any further details in connection with our estimate we shall be glad to supply them.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *A. O. S.*

Enclosure, 1.

1883-12-15

December 15th. 3

W. S. Andrews, Esq.,

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We have received your communication in reference to Mr. George A. Hofmeyer, and the book containing his answers to questions in regard to engines and boilers came to hand to-day.

He appears to be fairly well posted, but yet will have to learn considerable before he will be thoroughly competent.

Will you please let us know his age, where he lives and what salary he is at the present time in receipt of, also his present duties and what salary does he expect to get from us, also what is his nationality?

We return to-night the book wherein he answers the questions referred to.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. G.

1883-12-15

December 15th, 1883.

Gustav Solder, Esq. Supt.

101 Second Street, City.

Dear Sir:-

On the 13th. inst. we referred to you a letter from the Western Edison Light Company in regard to furnishing them with the new style commutators for "F" machines, and we asked you to send us the price of this commutator and state at the same time whether you thought we could concede to their wishes. We to-day find that you replied directly to the Western Edison Co. In future when we ask you to give us information, will you be kind enough to reply to our request. It is impossible for us to maintain the correspondence of this office unless we are allowed to answer communications which are addressed directly to us.

Yours truly,

The Edison Machine Works,

By

J. A. E.

1883-12-15

December 15th, 1883.

Gustav Soldán, Esq. Esq.

104 George Street, City.

Dear Sir:-

We beg to say, in reply to your letter of the 13th. inst., that we shall of course have the drawings of the engine which the Straight Line Company are now making patterns from. It may be well for you to go up to their place some time in January.

Yours truly,

The Edison Machine Works,

By

J. A. E.

1883-12-15

December 15th. 3

M. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your letter of the 12th. inst. enclosing check for \$4,000. on account of the Lawrence installation.

In regard to pressure indicators, we hope in a few days to be able to supply you with the improved style of indicator which has lately been gotten up by Mr. Edison. These are perfectly reliable and will obviate the difficulties you meet with at the present time.

In regard to using you fairly, we wish you would prepare an exact statement of all the points wherein we have been at fault, and which you consider should be righted by us. We will then be able to take proper action in the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

aez

1883-12-15

December 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Coeck Street, City.

Dear Sir:-

Referring to the attached letter from Mr. W. E. Clarke, of the Lawrence Company, will you please let us know if the annature which burnt out at the Pemberton Company's Mill was defective and if the burning was due to such defect. Please answer this question to us, as we wish to write Mr. Clarke on the subject ourselves.

Yours truly,

The Edison Machine Works,

By

J. A. E.  
J.

Enclosure, 1.

1883-12-15

Personal.

December 15th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

Will you be kind enough to let us know what your opinion is of the pole line work done at Tiffin by Kibler. Is it all good substantial work and what idea have you formed in connection with that part of the installation.

Very truly yours,

J. A. E.



1883-12-15

December 13th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 13th. inst., and in regard to the lamps which Judge Bunn has requested you to have sent forward, we have to-night written Judge Bunn to send us an official order, so that the established routine of our business may be sustained.

Yours truly,

Thomas A. Edison Constn. Dept.

By

AOZ

1883-12-15

December 15th. 3

Charles T. White, Esq.

102 John Street, City.

Dear Sir:-

In reply to your letter of the 14th. inst., we beg to say that on account of the delay which has taken place in connection with supplying us with the sulphate of zinc ordered by Mr. Edison, we were obliged to place an order elsewhere.

We shall, however, be glad if you will send us a sample and also send 500 lbs. to Thomas A. Edison, care Bergmann & Co., 202 Avenue B, City.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-15

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We have your letter of the 14th. inst. in regard to the belts used in connection with the "Y" dynamos at Fall River.

In regard to cementing these belts instead of riveting them, we adopted the former method of contact in order to stop the noise, but inasmuch as our experience with cemented belts up to the present time condones their use, we will in future have them riveted.

The chemicals for Fall River were shipped either yesterday or to-day, and we are hurrying Bergmann & Co. on the motors.

In regard to carrying in stock at our central stations a spare wrist pin strap and bearings for the Armington & Sims' engines, we will communicate with you later.

Yours truly,

Thomas A. Edison Constr. Dept.

By

A. O. J.

1883-12-15

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

In relation to starting the Fall River station, are you aware that Mr Edison desires to run this installation for about a day and a half without any lights whatever being cut in on the district. Please send us a telegram stating when you will be ready to start, so that Mr Edison can go to Fall River Monday night if necessary.

Yours truly,

Thomas A. Edison Const. Dept.

By

December 15th. 1883

1883-12-15

Messrs. Hergmann & Co.

202 Avenue B, City.

Dear Sirs:-

We beg to enclose herewith a letter from Mr. Andrews which he sent to us for perusal with the request that we should send it to you when we were through with it.

We consider Mr. Andrews idea as to having an "A" and a "B" amperé meter a very good one. Would it not be advisable for us to adopt these forms in future?

Yours truly,

Thomas A. Edison Consul. Dept.

By

A. O. J.

Enclosuréd, m.

1893-12-15

December 15th. 3

Paul D. Dyer, Esq.

St. George Hotel,

Dallas, Texas.

Dear Sir:-

We have your communications of the 10th. inst.

We have to-day forwarded to Dallas the special report  
blanks and books which you require.

In relation to the amount which should be to your credit  
in this office, we are having the matter investigated and will  
advise you later.

Yours truly,

Thomas A. Edison Constr. Dept.

By

A. O. J.

Decemberv15th.

3

A. V. E. Young, Esq.

39 Hancock, Street,

Boston, Mass.

Dear Sir:-

I have your letter of the 12th, inst. in reference to a position in my Laboratory for the son of Mr Adolph Satro.

I regret to state that at the present moment I have all the assistance in my Laboratory that I can use, but about the 1st. March I expect there will be an opening, when I shall be pleased to hear from you again in reference to a position for your ward.

Very truly yours,

J. A. E. J.

1883-12-15

December 15th.

3

E. Buchol, Esq.

201 Conti Street,

New Orleans, La.

Dear Sir:-

We have your letter of the 10th. inst., and regret exceedingly that a former letter which I wrote you has apparently miscarried.

The painting came to hand safely, and I can assure you that I am delighted with it. It is hanging in my office at the present time, and I consider it one of the finest pieces of work that I have seen in a long time.

Did you not make some request in your former letter in relation to a Phonograph? If you will repeat this I shall be only too happy to attend to it.

Again regretting that the transmission of my thanks has been so long delayed, believe me to be,

Very truly yours,

A. O. J.



1883-12-15

December 15th. 1883.

W. H. Welloy, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have your letter of the 6th. inst. in regard to the second "H" dynamo supplied for the Flint Mills.

In regard to a hood on the armature, it is not now our custom to supply hoods, and this one was consequently shipped with a canvass head. If, however, you desire us to supply a hood, we can make one and forward it.

Our Superintendent informs us that there were no parts of this machine missing at the time it was shipped, so that if any of the parts have not been received at the Flint Mills, they must have been lost in transit. The machine which we sent you was not an old one. It would be impossible for us to supply our customers with old machines, inasmuch as the moment a machine is completed it is sold and shipped.

Yours truly,

The Edison Machine Works,

By

Sa E  
J

1883-12-15

December 15th. 3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.

65 Fifth Avenue, City.

Dear Sir:-

We have the pleasure to enclose you herewith our estimate No. 60 for the erection of an Edison Electric Light Central Station Plant at Louisville, Ky. of 6,400 lamps capacity, and amounting to \$100,078.19, and we beg to call your attention to the fact that the Street Installation provides for 7,624 lights, or 1,224 more lights than the nominal capacity of the plant.

We also enclose estimates of daily running expenses and probable profits, and you will observe that the latter shows excellent dividends upon a capital of \$250,000.

In regard to your memorandum of yesterday's date, we beg to say that it is not our custom to sign these estimates.

If, however, you desire this one signed, I shall be glad to comply with your wishes.

Very truly yours,

Jac  
3

1883-12-15

December 15th. 3

Edison Co. for Isolated Lighting,

J. Hutchinson, Esq. Secy.

City.

Dear Sir:-

We beg to notify you that we hereby cancel all estimates  
we have made up to this writing for the installation of an Edison  
Electric Light Central Station Plant at Governors Island, N. Y.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-15

December 15th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

We beg to enclose herewith our estimate No. 53 for the installation of an Edison Electric light Central Station <sup>at Haverstraw N.Y.</sup> plant of 500 lamps capacity and amounting to \$10,103.24, together with map marked "A" showing the course of the mains and feeders in red and white lines.

You will observe that this estimate is for an underground installation, and that the conductors are for 550 lights.

We cannot send this estimate out without stating to you that we consider it one of the cheapest bids we have ever made for an installation of that size. Haverstraw is the most compact town we have yet had to deal with, and for this reason our estimate is a low one.

In a few days we will send you another estimate for a pole line installation, but as a permanent investment we should very strongly advise the adoption of an underground system.

At Piqua, Ohio we are now installing a plant of 500 lights capacity, and the amount of the estimate is \$16,631.49

You no doubt understand that the estimate in question was formerly

\$18,878.49, but, owing to the Piqua Company being unable to run along a certain street, the lines have had to be changed, and necessitates the increase in the amount of the estimate. It is a pole line installation.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A. J.

Enclosure:

1883-12-17

December 17th. 3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 13th. inst., and beg to congratulate you upon having at last secured a lot at Middletown.

In regard to the new location saving considerable <sup>in</sup> conductors and feeders, we beg to remind you that we already have our copper at Middletown for the conductors and feeders, based upon the assumption that the lot given us in the first place was to be purchased. The new location changes the size of some of these ~~lines~~, but to what extent we cannot at the moment tell, but we are having the figures made up, and if they accept our contract price, I shall of course look to the Middletown Company to reimburse us.. We must protest against these lots being selected after our contracts are closed.

The outcome of the Piqua and Middletown business will be that we will have on our hands a lot of wire that we cannot use possibly for some months, which will necessitate our losing interest on the money invested in it, which is a considerable item.

In regard to the buildings at Piqua and Middletown, we would say that our engineer in computing the cost of the Middletown building calculated upon putting up a brick structure instead of

1883-12-17.

2

framo, as is mentioned in the estimate. It is our intention now to erect a brick building at Middletown, but the price we quote for the Piqua building is insufficient to admit of our adopting the same course there. We will erect a brick building at Piqua for the same price as we charge for the Middletown building, namely, \$2,210., or \$400. above the contract price.

In regard to the progress we are making in Penna., we beg to say that the Mt. Carmel building is finished, except the inside, the Bellefonte building is in the same condition and the Hazleton building will have its roof completed to-night. We have done quick work in these places, notwithstanding the fact that the local people appear to be unable to see it.

We will have an expert wireman in Bellefonte in the course of a few days.

You had better advise us by wire of your decision in connection with the brick building for Piqua.

Very truly yours,

Thomas A. Edison Conain. Dept.

By

T. A. E.

7883-12-17

December 17th,

3

M. G. Trumbane, Esq.

Easton, Penna.

Dear Sir:-

In relation to your postal card asking about my alleged electrified health indicator, I beg to inform you that I have no such invention, and that the device which is manufactured and sold as "The Edison Health Indicator" is, in my opinion a complete fraud.

Very truly yours,

S. Q. E.  
J



1883-12-17

December 17th. 3

James A. Blair, Esq.

Commercial Bank,

Tiffin, Ohio.

Dear Sir:-

We have your letter of November 30th., and in reply beg to say that we were quoted special rates over the Lackawanna Fast Freight Line to Tiffin, and these rates were obtained for us by our freight broker, who got quotations from the Star Union line, but as they were not as satisfactory as the former, we of course would not accept them. We would like very much to have been able to oblige you and ship our material by the Star Union line, and, at the time the subject was first brought up, we stated that if your Company would agree to pay the difference between the Star Union rate and the special rate quoted us by the Lackawanna Line, we would ship by the route you desired. You of course could not expect us to do more than this.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1893-12-17

December 17th; 3

Messrs. Bergmann & Co.

363 Avenue H, City.

Dear Sirs:-

We have your communication of the 15th, inst. in regard to sulphate of zinc.

In reply we beg to say that Messrs. Powers & Weightman furnish sulphate of zinc which is far superior to that which Mr. Chinnock purchases. Mr. Chinnock gets this material from Messrs. John & Pink. We ordered a large consignment of zinc from the latter people which has proved absolutely useless, as it contains a quantity of iron. It must be distinctly understood that you will buy from Messrs. Powers & Weightman the chemically pure brand and never change or try to get cheaper stuff, as the chemically pure brand is the only kind that we can use.

We do not wish to guarantee anything further than that we ourselves will purchase our sulphate of zinc from you, provided you keep as good a brand as can be gotten elsewhere. Furthermore, we will instruct all local companies to obtain this material from you, and such instructions will be sufficient for you to control the trade.

Please let us hear from you as soon as possible, and

1113-12-17

2

also inform us as to when we can place our first order with you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-17

Dec. 17th, 8

H. C. Bolknapp, Esq. Treas.

Edison Elec. Ill. Co.

Newburg, N. Y.

Dear Sir:-

Will you kindly let us know the exact condition of the Newburg building, we wish to approximate as closely as possible the time when we can send our wiring experts to commence work on the interior of the Station.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't,

Ny

*AOJ*

1893-12-17

December 17th.

3

Deutsche Edison Gesellschaft,

Berlin, Germany.

Dear Sir:-

I have your letter of the 3rd. inst., and in relation to dynamo Webeg to say that our Company here have stopped selling 25 light machines, as they find it does not pay to send a man a great distance and have him remain there some time.

The 50 light dynamo is the lowest they sell, and we are not going to make any more 25 light dynamos. The price charged you for the last 50 light dynamo sent, namely, \$250. P. O. B. New York, is the lowest figure I can place this machine at. It seems to me that you ought to be able to make them much cheaper over there.

In regard to our accounts, I mailed you a few days ago a statement showing your indebtedness to me to the extent of

\$2,590.95. Your remittance you mention in your letter of the 3rd. inst., namely, \$495. has not yet been received by me, but will I presume come to hand in a day or so. This leaves \$2,101.65 still due me by you, and I wish you would very kindly, upon receipt of this letter, send me a cable remittance for the amount, as the

prices which I gave on your material will not admit of my carrying  
the accounts so long on my books, and I require to use the money.

Very truly yours,

*206*

1883-12-17

December 17th. 3

W. L. Garrison, Esq. Treas.

Boston, Mass.

Dear Sir:-

Referring to our letter of the 5th. inst., with which we enclosed statement of account against your Company, will you very kindly send us a check for the amount, namely, \$1,827.42, as we require to use the money very urgently. We should like to receive this check before Friday next.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-17

December 17th. 3

Messrs. Harris & Robinson,

Hartford, Conn.

Dear Sirs:-

We have your letter of the 15th. inst., enclosing a notice of a meeting to be held in Danbury this evening. We trust you will advise us of the result of this meeting will have in connection with the acceptance of our estimate, as of course you understand that to-morrow it expires, and we would like to furnish you promptly with fresh estimates, providing you need them.

Yours truly,

Thomas A. Edison Constr. Dept.

By

A. O. J.



1883-12-17

December 17th.

8

M. S. Hastings, Esq. Treas.

Edison Electric Light Co.

City.

Dear Sir:-

Referring to the attached correspondence from Mr. Dwellley, we beg to say that 150 sixteen candle lamps would be plenty to send on to Fall River at the present time. If these local companies were permitted to do so they would put in sixteen candle lamps everywhere, whereas not one out of every ten could toll the difference between the ten and sixteen candle power lamp were they placed side by side. They should not be permitted to distribute sixteen candle power lamps over the Fall River system as they please, and we strongly advocate only supplying the consumers with a limited number.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*A. O. J.*

Enclosure.

1883-12-17

December 17th.

3

James Harris, Esq. Secty.

Hollefonte, Penna.

Dear Sir:-

We have your letter of the 14th. inst. in regard to a wireman, and in reply beg to say that we hope in a few days to have our expert at Hollefonte to take charge of this work. in the interim you might select a local plumber whom you think would be competent to take charge of this work, after being properly coached by our expert. This would avoid any delay in the selection of a man after our expert arrives in Hollefonte. We presume that you understand that it is our policy not to have the local company take any part whatever in the wiring of buildings for the Electric Light. The parties who have their buildings wired will be responsible for the cost of same to the plumber, whom our expert will teach to do the work. He will receive all necessary instructions so as to make a regular business of it, and by this means the local company will avoid any trouble with parties in connection with the non-payment of their bills for wiring and fixtures. This course we have adopted in other places, and our experience has been that it is the only proper method of conducting that branch of the business. Were the local company to

1883-12-17

2

do the wiring, after they had supplied the customer with light, in a great many cases, the said customer would refuse to pay his bill for wiring and fixtures, entertaining the idea that the local company would prefer retaining him as a consumer of light rather than take the fixtures out of his building.

In regard to lamps, we shipped your order on Saturday.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A.O.S.

1883-12-17

December 17th. 3

Charles P. Lyon, Esq .

New American Hotel,  
Circleville, Ohio.

Dear Sir:-

We have your letter of the 15th. inst., in regard to furnishing you local parties with information. We trust you will not attempt to quote any prices in regard to an electric light installation. It is impossible to approximate the cost of an installation in any town with safety, and we prefer our canvassers to discuss these subjects as little as possible.

We have pleasure in sending you by same mail the Bulletin you desire.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. T.

1883-12-17

December 17th. 3

Messrs. Markle & Hall,  
33 Congress Street, W,  
Detroit, Mich.

Dear Sirs:-

Under same cover we send you a map of Grand Haven,  
Mich. In addition to supplying us with information in accordance  
with the annexed form, will you be kind enough to examine care-  
fully the course of our proposed street installation, which is  
shown on the map by red lines. If there are any obstructions,  
such as trees, telegraph or telephone poles, which would prevent  
our adopting the course we propose, we should be glad to have any  
suggestions you may think desirable to make in regard to alter-  
natives. The red circle on the map shows that part of the town  
within which it is desirable to obtain a lot, and the best loca-  
tion is as near the center of the circle as possible.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1893-12-17

December 17th. 3

M. C. Holknap, Esq. Treas.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

Will you kindly let us know the exact condition of the Newburgh building, as we wish to approximate as closely as possible the time when we can commence work in the interior of the station.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A. C. T.

1883-12-17

December 17th.

3

W. A. Croffut, Esq.

359 West 23rd. Street, City.

Dear Sir:-

In relation to your communication of the 16th. inst.,  
I beg to say that Mr Edison leaves town to-morrow evening for  
Fall River. He may return the latter end of the week.

Very truly yours,

J. G.  
P. S. c

1893-12-15  
New York, December 18th. 1893.

*Bergmann*  
85 Fifth Avenue,

My Dear Insull:-

I should have written you last week, but I thought it better to wait until one Saturday had passed before doing so, in order that I might give you a history as to how I got through the "black day". On Saturday morning I had \$4,500. in the bank altogether. I went down to Hastings and got \$1,000. from him. Out of this I paid Kruesi \$1,000. and gave Bergmann \$700., as they were both very hard up. I paid the Machine Works pay-roll and contracts together with our office pay-roll, also met a Machine Works' note, and yesterday I was advised by the Germania that the \$3,000. note, which I got from Hastings last Friday, had been discounted by them, so on Monday morning I came out with \$4,348. in the bank, which will run me through all right this week.

Mr Edison went to Fall River to-night, and the station is to be started to-morrow, and that means a remittance of \$20,000. from them, Mr Edison will see that a check is sent to me promptly.

We closed the Williamsport business on Saturday last. As you understand we sent them the forms of agreement and one of those Mr Edison signed before it left the office. The Williamsport people closed the contract on the old basis, which was a point that Mr Edison desired to avoid. The new canvass which we prepared is ready, and they have a chart with the lines marked in accordance with this new map, and we are now trying to have



1883-12-18

than substitute it for the old one. The matter will be decided in a day or two, and also in a day or two they will remit us the first payment, which is a matter of about \$13,000.

Immediately after you left here, I wrote again to Lord for that remittance of \$5,000., and on Friday received a check from him for \$4,000., and he said he would remit the balance as soon as he got it.

I wrote to Garrison yesterday to send us a check for the \$1,800. still due upon Brockton, and hope to hear from him before Saturday.

I have to meet about \$4,300. on Saturday, but will have no trouble whatever in doing so, as prospects are good.

CANVASSERS. Dyer has completed his canvass of Galveston and is in Dallas, and from that point he goes to Sherman. Wilbur has completed Atlanta and is in Mobile, from which point he goes to Knoxville. Cooke is still with Markle & Hall, and Lyon is just about through with his canvass of Circleville, Ohio, after which he returns to Pennsylvania. I will see that your instructions as to the disposition of these canvassers after January 1st. are carried out. We certainly will require more help in this line.

There were some parties came up here from a town in Pennsylvania near Hazleton. Shaw had never been near the town, nor approached any of the people in regard to lighting. The gentlemen of whom I speak had been around visiting Shamokin and

1873-12-18

so I deposited it in the Germania, and taking the check payable to my order, signed by Mr. Edison, I went to Hastings, who very kindly allowed me to draw \$3,000, payable to the Edison Electric Light Co., and which he refunded me by giving me his checks for the amount required for the above purposes. I was still \$400. short, notwithstanding the fact that it was in the bank, and this \$400. was for Pruesi. Hastings could only let me have \$300., and he required \$700. in order to meet his payroll. I got Hastings to go to the Bank of the Metropolis with me where we saw the Manager, and we arranged with him that I should sign a check, "Thomas A. Edison, by A. O. Tate", for \$400., the Edison Electric Light Co. by Mr. Hastings to guarantee the ~~check~~ signature, and they would let me have the money. This I did and got through the day without any disastrous results more than a slight headache. In further discussion of money matters, you will no doubt recollect that the contract we made with the Fall River Company differs materially with any of our other contracts. The first payment in connection with this installation was ten per cent upon the signing of the agreement, twenty per cent on October 25th., twenty five per cent when the installation was ready to supply light and the remaining forty five per cent when the installation had been in condition to supply light thirty days. The above mentioned ten per cent, namely, \$4,180.00, was paid upon the signing of the agreement; about October 26th. two other payments of \$4,000. each were made by the Fall River Company, the same being the twenty per cent referred to, and on the 27th. November Dwoolley sent us his check for \$8,500.

1883-12-18

which was a portion of the twenty five per cent that should have been paid when the installation was ready to supply light.

I will receive from Dwelley to-morrow a check for \$4,000., and this is the only payment that will be made on account of this installation until the 16th. January, when there will be \$17,128.00 due. You see by the arrangement made with these people that the greater part of the money, instead of being paid in when the installation was ready to supply light, does not come to hand until we have run it for thirty days.

Now in regard to our contract with the Ansonia, we owe them on account of wire supplied for Fall River \$4,950.20, and seventy five per cent of that amount is \$3,718.05, which consumes the \$4,000. that will arrive to-morrow. I do not yet know the amount that the Williamsport people intend remitting. They owe us \$18,000., and I fancy it will be at least half of that.

I shall go to Hastings to-morrow and tell him that I want a good remittance on account of the Machine Works on Saturday, and that I simply must have it. I can pull through all right, but will have to give Babcock & Wilcox a note to-morrow for the amount due them.

I have a note due on the 12th. January for \$2,309., which is one we issued to Bergmann & Co. I have another on the 24th. for \$1,240., and there is nothing then until the 17th. February, at which time there is a small one for about \$520. If I bring t Babcock & Wilcox' note in about the 1st. February it will be all right, as at that time we will have been in receipt of the last payment on account of Fall River, and can meet it without trouble.

1883-12-18

Tiffin station will be ready to start up in about two weeks, which will remit a payment of \$9,000. from that source. MT. Carmel will be ready to start at almost the same time, so you see as long as Mr. Edison is within reach I will not get left in the money line. It will be a very frigid day when he leaves me in the same box as he did last Saturday, as I shall take care I have plenty of checks so long as there is money in the bank to sustain them.

On the 10th. inst. we billed ~~AM~~ the Societe Industrielle with \$787. for material shipped them, and they now owe us \$1,332.21. We billed the London Company with \$450.50 on the same date, which makes the amount due us by that corporation \$928.50. This information I believe you desired transmitted to you.

In regard to the Williamsport, I forgot to mention when speaking of it that we will not issue any orders in connection with that plant until the full amount of the first payment has been made. We have a full list of the stockholders, and are to-night going through Bradstreets to find out how they stand.

CANVASSERS? I think I told you in my last letter that Cooke had finished with Markle & Hall, but we were requested by them to allow him to remain a while longer in order to complete a canvass of Adrian, Mich. He will be through there to-morrow, and as the Light Company is anxious to have a report on Meriden, Conn., we will send him to that point, after which he can canvass Rondout and Kingston, N. Y. Lyon is at Pottsville, Penna. Dyer is on the point of leaving Dallas for Sherman, and Wilber is making a canvass of Knoxville, after which he goes to Danville, Va.

1883-12-18

MACHINE WORKS. It is pretty hard work to get Soldan to turn out machines quickly, but we must give him credit for having made a good shipment on Monday last. He forwarded the Bellefonte, Hazleton and Mt. Carmel machines on that date, which were two "Y's" each for the first and second places and two "S" machines for the last. The Newburgh machines go forward on Friday next. The Lawrence Company have ordered from us two more "H" machines and another 14<sup>1</sup>/<sub>2</sub> x 18 engine. The former were shipped to them on the 22nd inst. and the engine goes forward to-morrow, together with the bedplate and washers. The bolts are already in the foundations which Rich left prepared. I received to-day a letter from Lord, which, is to say the least amusing. You no doubt remember what a disjointed correspondent he is and that it is almost impossible to gather anything from his letters. He kept harping so long upon the string of "treat us fairly", that I at last wrote to him asking him to submit to us a statement of all the points wherein he considered we had failed to live up to our contract. In his letter received to-day he states that we must consider them (the Lawrence Co.) imbeciles, and complains about us having supplied him with 10" bolts, about the delay to his dynamos and the tardy manner in which his meters are being supplied. In reply to Mr. Lord, I informed him that we were using 10" bolts in the same connection with other installations, where they gave perfect satisfaction, and we saw no reason why they should not prove satisfactory at Lawrence. I stated that we sincerely regretted being unable to control Messrs. Bergmann & Co's affairs,

1893-12-18

and that we were doing all in our power to make them hurry forward his material. In connection with dynamo's, at the time he wrote his letter, which was on the 22nd. inst., there must have been one "S" machine at the Lawrence depot, as it was shipped from here on the 18th. inst. On the 17th. inst. he gave us an order for two "P" machines and they went forward on the 23rd. On the same date he ordered the large engine, and it goes to-morrow. We called his attention to these facts without commenting upon them, and in relation to his insolent remarks about competent parties managing the business at this end of the line, I stated that we would be greatly obliged if, in future, he would kindly suppress any suggestions in regard to the manner in which our business should be conducted. You cannot imagine what a "damned" impertinent letter he wrote. My reply is very mild and has not yet gone out of the office, and to-morrow I will show it to Mr. Edison. I made no further statements in it, except as detailed above, but if Mr. Edison considers this unnecessary, I will not send the letter. I wish you were here at the present time to reply to it.

In regard to Kruesi, he is as usual in a chronic state of "hard upness". The Illuminating Co. owes him about \$3,000., and he cannot "strike" them for a cent. I have had to carry him through ever since you left.

Last Saturday Hastings had to give Bergmann considerable money to help him out, but this Saturday I am going to make him give me a good payment, and also make a good payment to Kruesi.

We have heard nothing so far about the Danbury affair, and our estimate in that connection expired some days ago, and they have not asked us to make a new one. I see by the papers that about \$16,000. of the Danbury stock has been subscribed.

Perry came in to-night in regard to Mr. Hatchelor's stock, and he told me that he had been unable to do anything since you left, and I have embodied this in a cable to you.

I think I have exhausted all points of interest, except one, this point is our friend Mr. Gilmore. It is now only about ten o'clock, and notwithstanding the fact that he has had a regular "picnic" since you left, he is growling like a bear.

Trusting you are enjoying yourself, I am,

Very truly yours,

A. M.

1883-12-18

Piqua

Dec. 18th,

3

A. Stuart, Esq. Sec.,  
Edison Installation Co.,  
Cinn. Ohio.

Dear Sir:-

We beg to enclose herewith form of agreement in duplicate, for the installation of the Piqua plant, in accordance with our estimate No. 45F, and the accompanying exhibit marked "B" showing the course of the conductors, and which is a duplicate of the map that was furnished you at the time the estimate above mentioned was submitted and accepted.

In regard to the communication which we have received recently, stating that it will be impracticable for us to run along Main St., we would say that the necessity of making this change in the course of our conductors, will increase the cost of the Piqua installation by \$2,752. For this reason we send you herewith two more forms of agreement, for the installation of a 500 light plant amounting to \$18,631.49 together with map marked "C" and showing the course of the conductors which are so arranged as to avoid running along Main St.



1883-12-18

2

In relation to the latter chart we would call your attention to the fact that it includes 150 lights, more than the old one, the average burning of the Piqua installation is at least 4 hours. If you sell light in Piqua for 1 cent, those extra 150 lights will themselves bring you in a dividend of \$2390.62 for the first year, which is within a small amount of the cost of installing them. If it is your intention to sell light for 1 instead of 1 per hour, those 150 lights would bring you in a dividend for the first year of \$2,908.73 or \$117 in excess of the cost of their installation.

If after considering the above facts you desire to accept our bid, in accordance with the map marked "C" which is the one including the lights above referred to, please have executed the forms of agreement sent you herewith, and specifying the amount of the contract, which is \$16,031.40. Also please be kind enough to send us a check for \$6008 which is 25 per cent. of the amount of the increase.

The Piqua Co. of course understand that in any event, we look to them to obtain for us the necessary permits to run our conductors in accordance with whichever chart they accept, and we do not hold ourselves responsible for any failure to obtain such permits that would prevent our erecting poles, and running lines.

1883-12-18

3

In relation to these matters we shall be glad to hear from  
you at the earliest possible moment, as we desire to order for-  
ward the additional wire if our chart "C" is accepted.

Very Truly Yours,

J. A. E.

1883-12-19

Piqua

December 18th.

3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We beg to acknowledge receipt of your telegram of the 18th inst. instructing us to put in a brick building at Piqua and accepting our price, namely, \$2,210., or \$800. over and above the contract.

We have given instructions to have the work done accordingly.

Yours truly,

Thomas A. Edison Constn. Dept.

By *A. P. J.*

1883-12-19

Electric Pen

December 16th. 3

John Ott, Esq.

292 Avenue B, City.

Dear Sir:-

Please make up about two gallons of the duplicating  
ink, and notify us when it is ready.

Yours truly,

John  
J

1883-12-19

December 18th. 3

H. O. Stratton, Esq.

35 Oliver Street,

Boston, Mass.

Dear Sir:-

Thank you for your letter of the 13th. inst., and in reply  
beg to express my regret at having overlooked your former letter.

The duplicating ink is being prepared, and will be sent  
you in the course of a few days.

Very truly yours,

*J. H. S.*

1883-12-19

December 19th, 1883.

Gustav Soldan, Esq. Supt.

104 Coorck Street, City.

Dear Sir:-

Below we give you a list of the machines we desire to have shipped on the days specified:-

Two "H" Machines on the 24th. prox. and two "Y" machines on the 24th. prox. to Newburgh, N.Y.

Two "Y" machines on the 24th. prox. to Bellefonte, Penna.

Two "Y" machines to Hazleton, Penna. on the 24th. prox.

Two "S" machines to Mt. Carmel, Penna. on the 24th. prox.

These machines must be shipped absolutely on the dates named, and if there is any delay in the Testing Department, we wish you to report it at once to us and we will have it remedied. Unless these dynamos go on the date specified we will be seriously delayed in our work, and you must do everything in your power to have them forwarded in accordance with the above.

We send you an order to-day to ship two "H" machines to Lawrence. These should be forwarded on Saturday next the 22nd. prox.

Yours truly,

The Edison Machines Works,

By

*Sale*

1883-12-19

December 18th. -3

Spencer Gordon, Esq.

P. O. Box 3,311,

Boston, Mass.

Dear Sir:-

In relation to real estate in Portland, we beg to say that if it is possible to obtain options in the blocks bounded by Brown & Elm Streets on the one side and Cumberland and Congress Streets on the other it would make a considerable saving in the amount of copper to be used. A lot in the block bounded by Brown, Cumberland, Probol and Congress Streets would be preferable.

We will forward the Portland estimates upon the assumption that the central station will be placed upon one of the lots selected from those already submitted, but if we can obtain a lot within the area mentioned above it will make a great saving.

Very truly yours,

Thomas A. Edison Conatn. Dept.

By 

1883-12-19

December 19th. 3

Garant C. Sims, Esq.

Providence, R. I.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 18th. inst. in reference to the valves of the 14<sup>1</sup>/<sub>2</sub> x 13 engines being bored for five inch steam pipe.

We also note your remarks in reference to our Piqua and Middletown engines.

We will send you by to-morrow's mail a list showing the dates we desire the engines you have under construction for us shipped.

Many thanks for your statement in regard to caulking a boiler, also about the load of your engines. Do you consider it necessary for us to carry a spare wrist pin strap and bearings for each one of your engines that we have installed at any station.

Very truly yours,

Thomas A. Edison Const. Dept.

By *W. A. G.*



1893-12-19

December 19th, 1893.

Gustav Soldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

Are you doing anything about paper belts? Please send  
us the address of the party from whom you got the sample pulley  
for test.

Yours truly,

The Edison Machine Works.

By

J. A. E.  
J.

1883-12-19

December 19th. 3

W. D. Rich, Esq.

Waxloton, Henna.

Dear Sir:-

We are in receipt of a letter from the Treasurer of the Lawrence Company stating that they want two more "H" machines and the other 14' 2 x 13 engine, specified in our contract with them.

Did you put in a foundation at Lawrence for this engine?

Yours truly,

Thomas A. Edison Constn. Dept.

By *AE*

1883-12-19

December 19th. 3

W. D. Rich, Esq.

Hamletton, Penna.

Dear Sir:-

We enclose herewith a number of recommendations from Mr. Garret Bogert who desires to obtain a situation with us setting up machinery. He has been connected with the Straight Line Engine Company, and he has some excellent testimonials. If you require the services of such a person, please let us know, and return the enclosed papers, obliging,

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

Enclosure, a.

1883-12-19

December 18th. 3

E. H. Ford, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In reply to your letter of the 15th. inst. we beg to say that the other "S" dynamo with the extra 10" pulley was shipped to you yesterday.

We have sent the 12" and 10" pulleys, because we think you will find it advisable to change after running the 10" pulleys for a time.

We can forward the two "H" machines early next week, and we have ordered the 14<sup>1</sup>/<sub>2</sub> x 13 engine, which we think can be supplied promptly, but in regard to this matter we will write you in a day or two.

Yours truly,

Thomas A. Edison Genl. Mgr.

By

*aes*

1883-12-19

December 10th. 3.

M. O. Polknap, Esq.,

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 17th inst., and in reply would say that the necessary services for Newburgh have gone forward.

Messrs. Bergmann & Co. will give you prices for sockets and fixtures.

In regard to house wiring, we would impress upon you the fact that it is very unwise for your Company to have anything whatever to do with this kind of work. When you are ready to have house wiring done we can send an expert to Newburgh, who will teach a local plumber or some such suitable person how to do it.

Our experience has been that if the local company takes in hand such work as this the parties who have the wiring done will not, in a great many cases, pay their bills for wiring <sup>before</sup> ~~until~~ after the light has been furnished, and then <sup>they will</sup> raise numerous objections to paying these bills, entertaining the idea that the company would prefer retaining them as consumers and allow the bill to go unpaid, rather than take the fixtures away from them. If, on the other hand, those parties are responsible for the amount of their

1883-12-19

2

wiring bills to some person who has no connection with your Company whatever, except having your approval to do this kind of work, it will be impossible for the consumer to enter into a discussion with your Company as to the payment of their wiring bills.

We advocate this course as a protection to your Company, and would strongly advise your adopting it, inasmuch as it has been perfectly successful in other places, and in two or three towns where the local companies disregarded our advice on this subject, they have had trouble in the manner herein set forth.

As soon as you have applicants enough to warrant our sending on a man there, we will do so.

Yours truly,

Thomas A. Edison Constn. Dept.

Ny.

*as*

1883-12-19

December 18th. 3

Messrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

We have your letter of yesterday's date in relation to the charge we made against your Wiring Department of \$302.34 for work ordered at Shumokin by your wireman, Mr. Johnson, and also comprising certain charges which the Shumokin Company deducted from our contract for the non-performance of work, in connection with the erection of pole lines.

We have read with interest your letter to the Shumokin Company, and we cannot suggest any other way in which the matter can be discussed. We did not send you a bill for \$302. in order to effect a compromise, but we consider that, in order to make an equitable division of the loss sustained by us all on this plant, we are perfectly justified in asking you to bare that portion which directly concerns your work at that point. We have forwarded your letter to the Shumokin Company, and we have no comments to make upon any discussion you may have with them, but our loss on our own work has been so very heavy in connection with this installation that we cannot consider any proposition which will have in view the placing to our credit of a less amount than \$302.34, in accordance with the bill sent you on the November

1883-12-19

2

20th.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*aos*



we have  
nish goods to the Swiss Company, in ac-

1883-12-19

Dec. 19th,

3

Messrs. Borgmann & Co.

292 Ave. B. City.

Dear Sir:-

Replying to your letter of the 12th inst. in regard  
to discounts for <sup>Mr. Gaura</sup> ~~the~~ ~~Swiss~~ Co., we beg to say that on Sept. 10th,  
~~we~~ <sup>we</sup> wrote these people telling them you would agree to fur-  
nish goods in your Catalogue to them at 30 per cent discount,  
excepting Sockets, Cut-Outs, and Switches, and on these as an  
extra inducement, we informed them, you would agree to give a  
discount of 32 per cent. We informed them that your charges  
for boxing and cartage on same, would be extra. These proposals  
we extracted from a letter which you sent us, agreeing to fur-  
nish goods to the Swiss Company, in accordance with the above.

Very Truly Yours,

J. A. E.

1893-12-19

December 19th. 3

C. H. Cooke, Esq.,

Cooke's Hotel,

Ann Arbor, Mich.

Dear Sir:-

We send you to-day a supply of canvassing blanks, which we desire you to use in future when submitting your canvass to this office.

When taking notes along the streets you may use a book, and during the day prepare these sheets, which are to be sent on here. We also send you herewith a sample sheet showing how these reports should be made out.

For your further information we will give you the following explanations:-

The column on the canvass sheet marked "Width in Feet" means width of building. Where buildings are isolated the distance between them should be passed as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass sheet. Every sheet must be numbered with the number of the block and the name of the street, and, when your canvass is completed, you should pin the four or more different

1883-12-19

2

sheets show <sup>map</sup> the four faces of each block, and then on a separate piece of paper make an index of the canvass in the follow manner:-

BLOCK.	PAGES.
1	1-2
2	3
3	4
4	5-11

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours truly,

Thomas A. Edison Constn. Dept.

By *Q. Q. J.*

Enclosure,

1883-12-19

December 18th. 3

Charles F. Lyon, Esq.  
New American Hotel,

Circleville, Ohio.

Dear Sir:-

In relation to your canvass of Wellsborough, Penna. you give the number of lights burning in the hotels by stating that they will average so many for so many hours. We desire that you shall give detailed specification of each light burning in the hotels, as we desire to know how many lights burn in the office, halls, dining room, kitchen, bar, and also the total number of rooms in the hotel, together with the actual number of hours each light burns in each separate room. This information we want in connection with every hall and building where there are any particulars to be given. We do not want you to give the average, as we prefer to obtain that ourselves from detailed information. We shall also be glad if you will discontinue to name the street lamps, as they are of no interest to us and only cause confusion in your canvass.

When you begin entering you canvass on the sheets which will be sent you to-day, please pin the four block faces comprising one block together and then make an index as follows:-

1883-12-19

BLOCK.

1

2

3

2

PAGES.

1--2

3

4--5

Please make any remarks in the "Remark Column" in black ink, except for trees, which you had better make in red ink.

We trust you will pay particular attention to the instructions given you within, as any deviation from the rules we set forth will cause great confusion and delay in our Map Department, which we particularly desire to avoid.

Yours truly,

Thomas A. Edison Constn, Dept.

By

adg

1883-12-19

December 19th. 3

T. M. Teall, Esq.

Syracuse, N. Y.

Dear Sir:-

By same mail we send you a map of Syracuse, N. Y., and in addition to supplying us with the information in accordance with the attached form, will you kindly look carefully over the course of our conductors, as we propose running them, and let us know if there are any obstacles, such as high trees, telephone or telegraph poles, which would prevent our running along any point where the red lines are marked on the map.

In regard to a lot for central station purposes, any kind of a lot whatever will do us as long as it is large enough, and which point will be determined after you submit your report on options. As long as we can have run to put our plant in, it does not matter in the least whether the lot is on an alley, and we would prefer a location which is not conspicuous as near the center of the circle as possible.

In regard to these matters, please let us hear from you at the earliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*Aos*

1883-12-19

December 18th. 3

G. W. Wilbur, Esq.

Post Office,

Knoxville, Tenn.

Dear Sir:-

In your canvass of Atlanta you have omitted to class on about one third of the dwellings. This appears to be a common occurrence with you, and we trust in future these details will not be overlooked, as they cause great confusion and necessitate our having to guess at information which should be reported to us by our canvassers.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-19

December 19th. 3

I. G. Walker, Esq.

care Judge J. F. Bunn,  
Tiffin, Ohio.

Dear Sir:-

We have your telegram stating that you will not be ready to leave Tiffin until after January 1st., and in reply we beg to say that your statements are rather misleading.

We have a letter from you dated the 13th. inst., in which you inform us that in your opinion at the present time it would be well to turn the work over to Messrs. Baxter & Brown. If the present time is as good as any, we want you to turn the work over immediately and go to Bellefonte, Penna. It is our aim to keep you in one point as short a time as possible compatible with the efficient teaching of the parties who are to perform the work after your departure. Please let us have an explanation as to how the matter really does stand.

In regard to your orders for material, inasmuch as we do not look to you for the payment of our bills, and as the material is ordered on account of the Tiffin Company, before we can supply it we must have an official order from an Officer of the said corporation.

We have written Judge Bunn in regard to the lamps he



1883-12-19

December 10th.

2

desires sent to Tiffin, and when we receive the proper authority for making the shipment, we will immediately have them forwarded.

Kindly let us hear from you as soon as possible in relation to handing over the Tiffin work.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1893-12-19

December 18th. 3

Western Edison Light Co.

Chicago, Ills.

Dear Sirs:-

In relation to the attached correspondence, we are informed by Mr. Hutchinson, the Secretary of the Isolated Company, that these meters are for you. They have apparently been consigned to the Edison Company, 104 Dearborn Street. We have received no communication from you as to what they are for or why the shipment was made, and we await further particulars.

Yours truly,

Thomas A. Edison Constn. Dept.

by

A. A. S.

Enclosured.

Dec. 1927,

3

G. W. Kilber, Esq.

P. O. Knoxville, Tenn.

Dear Sir:-

We send you to day a supply of canvassing blanks, which we desire you to use in future when submitting your canvass to this office.

When taking notes along the streets you may use a book, and during the day prepare these sheets, which are to be sent on here. We also send you herewith a sample sheet showing how these reports should be made out.

For further information we will give you the following explanations:-

The column on the canvass sheet marked "Width in Feet" means width of building. Where buildings are isolated the distance between them should be paced as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass sheet. Every sheet must be numbered with the number of the block and the name of the street, and, when your canvass is completed, you should pin the four or more different

sheets showing the for faces of each block, and then on a separate piece of paper make an index of the canvass in the following manner:-

BLOCK.	PAGES.
1	1--2
2	3
3	4
4	5--6

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours Truly,

Thomas A. Edison, Constn. Dep't.

By



Enclosure.

Meters

1883-12-20

Dec. 20th,

3

W. S. Andrews, Esq.

Chief Elec. Engineer,

P. O. Box, 865 Fall River.

Mass.

Dear Sir:-

Will you please let us know how the meters for Newburg, Bellefonte, Piqua, Middletown, Mt. Carmel and Hazelton are to be standardised, whether the "A" or the "B" meter, and oblige.

Very Truly Yours,

Edison Machine Works.

By

*as*

1883-12-20

December 20th. 3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Could you very kindly send about 10 lbs. of sulphate of zinc to the Edison Electric Illuminating Company, Fall River, Mass. We ordered 300 lbs. of this from Mr White, but up to this writing he has not supplied it, and we have had so much difficulty with bad material that we are afraid to send anything that we are not absolutely sure of. Mr Edison is in Fall River at the present moment, and has telegraphed for this sulphate of zinc, and you would confer a very great favor upon us if you would express it to-day. Furthermore, if you could send on a couple of ounces of marine glue we should be deeply indebted. We have ordered some of this to be expressed from Messrs. Eimer & Amend, but inasmuch as a quantity which they sent to Lawrence sometime ago proved to be useless, we wish if possible to guard against the same mishap at Fall River. We are making arrangements to have this glue prepared at the Testing Room.

We regret exceedingly to be obliged to trouble you, as we fear you will consider that we are imposing upon good nature, but under the circumstances you are the only person to whom we can

1883-12-20

December 20th. 8

appeal to help us out of this trouble.

Yours very truly,

Thomas A. Edison Constn. Dept.

By 

1883-12-20

Dec. 20th,

M. C. Holknap, Esq. Sec.

Edison Elec. Ill. Co.

Newburg, N. Y.

Dear Sir:-

We beg to acknowledge with thanks your letter of the 10th inst., and wish you would be kind enough to notify us immediately the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't.

By

*Edison*



1883-12-20

Dec. 20th, 3-

W. S. Andrews, Esq.

P. O. Box, 565 Fall River,

Mass.

Dear Sir:-

We send you herewith blue print, of the Williamsport station. Please advise us of electrical material as soon as possible.

Very Truly Yours,

THOMAS A. EDISON, Constr. Dep't.

By

A. O. J.

1893-12-20

Dec. 20th, 3

W. D. Rich, Esq.

Hazleton, Pa.

Dear Sir:-

We are to day in receipt of a letter from the secretary of the Newburg Co., in which he states provided they have favorable weather, the walls will be up and ready for the roof timbers in eight days. We have requested these gentlemen to advise us as soon as the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constr. Dep't.

By

*Aoy*

1893-12-21

December 21st.

3

Messrs. Bergmann & Co.

203 Avenue H, City.

Dear Sirs:-

We are this morning in receipt of a letter from Mr. Edison dated Fall River, and in it he asks us to instruct you to be sure that two lamps with wire in center of them go with each indicator you send out, also that two feet of 1000 platinum iridium wire go also with each indicator extra. Mr. Edison states further that three of the spirit levels on the pressure indicators you sent to Fall River have the bubbles so long that they are utterly useless, and he complains very bitterly of your neglect in not having this work inspected before it goes out; he also says that one of the new field regulators there has a wrong number of blocks.

Kindly give those matters your attention.

Yours truly,

Thomas A. Edison Consul, Dept.

By

*W. C. C.*

1883-12-21

December 21st, 83

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have your letter of the 20th. inst., in reference to advising you about shipments of material, and in future will see that you are promptly notified when any consignments are made.

Yours truly,

Thomas A. Edison Const. bDept.

By

*AOY*

1883-12-21

December 21st, 3

Messrs. Waterhouse, Winterbotham & Harrison,  
1, New Court, Carey Street,  
Lincoln's Inn, W. C.  
London, England.

Dear Sirs:-

I have your letter of the 4th. inst., together with  
instrument appointing Messrs. Theodore Waterhouse, William Howard  
Winterbotham and Richard Lake Harrison my Powers of Attorney.

I have signed same, had it duly attested by a Notary,  
and also had attached to it the certificate of the English Consul  
General, and return the same by this mail, under separate cover.

Yours very truly,

*W. H. G.*

1883-12-24

December 24th, 1883.

Gustav Seldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

In reply to your letter of the 21st. inst. I beg to say that it is my opinion that you had better get a blower. Have you not got one at the Works which will answer? We use a blower at the Pearl Street station.

I return herewith ~~the~~ ~~the~~ letter to you.

Yours truly,

The Edison Machine Works,

By

J. A. E.  
J

Enclosure, CI

1883-12-24

December 24th. 1883.

Messrs. Macpherson, Willard & Co.

Bordentown, N.J.

Dear Sirs:-

We have a letter from our Superintendent, Mr. Soldan, in which he complains of the very slow manner in which you deliver castings to the Machine Works. Could you not arrange to deliver these more promptly, as the non-receipt of them holds back our central station work, and imposes upon us the necessity of carrying a lot of goods which we could otherwise dispose of.

Yours truly,

The Edison Machine Works,

By

Yas

1883-12-24

December 24th. 3

Frank B. Mac, Esq.

care Commercial Telegram Co.

18 Broadway, City.

Dear Sir:-

We have your letter of the 19th. inst. confirming your acceptance of our offer of seventeen cents a pound for 1,900 lbs. of copper wire, which please be kind enough to ship to Thomas A. Edison, 293 Avenue B, City.

We will pay you ten cents per pound for couplings.

Please advise us if you accept this.

Yours truly,

Thomas A. Edison Constr. Dept.

By

*AOJ*



1883-12-24

December 24th. 3

W. D. Rich, Esq.

Bellefonte, Penna.

Dear Sir:-

We send you to-night under separate cover blue prints of  
Mt. Carmel, Bellefonte and Hazleton, which are to be used by the  
wiremen who have charge of the erection of the pole lines.

All information necessary for these parties to have will be found  
attached to the charts.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. J. M.*

1883-12-24

December 24th, 1883

W. H. Pofinger, Esq. Pres.

American District Telegraph Co.

New Orleans, La.

Dear Sir:-

In regard to the map of New Orleans, sent you under separate cover this date, in addition to supplying us with the information in accordance with the attached form, will you kindly examine the course of our proposed street installation and let us know if there are any alterations in same which, in your opinion, it would be desirable to make, and very much oblige,

Very truly yours,

Thomas A. Edison, Constat. Dept.

By



Enclosure.

1883-12-24

December 24th. 3

George D. Beryemin, Esq.

Dixon, Ills.

Dear Sir:-

I have your letter of the 13th, inst. in reference to utilizing electricity for wood cutting, and in reply I beg to say that this experiments has several times been tried, but the idea has been abandoned, as the carbon of the wood rots the platina.

Very truly yours,

J. A. E.

1853-12-24

December 24th. -3

George H. Bliss, Esq.

Chicago, Ills.

Dear Sir:-

We have your letter of the 19th. inst. in reference to  
an amperre indicator, and consider it advisable for you to use one.  
Messrs. Hermann & Co. make them, and you should order one to show  
load, and graduate it from zero to 275 amperes.

Yours truly,

Sa E  
J

1883-12-24

Dec. 24th,

3.

Henry C. McCormick, Esq. Pres.

Williamsport, Penna.

Dear Sir:-

We have your letter of the 18th inst. in reference to our map submitted to you by Dr. T. G. Detwiler having been accepted as the Exhibit "A" referred to in the contract between us, and we beg herewith to confirm our approval of same.

The map as you state shows the lines as running eastwardly to Penn Street, northwardly to Fifth Street, westwardly to the alley between Grace and Edwin Streets and parallel to Campbell and Walnut Streets, and southwardly along First alley south of Market Square from William Street to Academy Street.

In relation to this contract, we are still waiting to receive from you the first payment of twenty five per cent of the amount of the same, and which first payment is \$18,300.44. We have all our orders for material ready to send out, but until we receive the above remittance from you we will be unable to do anything in regard to forwarding the necessary material to commence work, inasmuch as we have to pay a certain percentage on the greater part of our orders at the time they are submitted for execution.

Very Truly Yours,

7a E Cash Dept  
205

1883-12-24

December 24th. 8

W. H. Dwoley, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

I understand that the engineer allowed the wrist pin  
of the engine to get hot and you had to shut down. This is pure  
carelessness, no matter what the engineer says.

Yours truly,

Dau

1893-12-24 1

December 24th. 3

W. M. Doubleday, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

Can you tell us how soon Fitch will be through with the work he is doing at Fall River? As soon as he is prepared to leave there, we should like him to come to New York, as we desire to secure his services in connection with other installations.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*AOY*

1883-12-24

December 24th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 20th. inst., and await the decision of the Niqua people in reference to the change of the pole lines at that place.

We have received a communication from Mr. Shaw in regard to brick buildings for future estimates, and will comply with your wishes.

Yours truly,

Thomas A. Edison Const. Dept.

by *A. O. J.*



1883-12-24

December 24<sup>th</sup>. 8

William Schwenk, Esq. Prost.

Mt. Carmel, Penna.

Dear Sir:-

Upon receipt of your letter of the 16th. inst. we wrote to Messrs. Bergmann & Co. to hurry forward your material, and they replied to us that they would use the utmost despatch.

In regard to a wiring export, our man will be there in the course of a week or two.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. J.*

1883-12-26

December 26th. 3

E. H. Lord, Esq. Towns.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 22nd. inst., and in reply beg to say that the other "S" machine was shipped to you on the 18th. inst., and we wired you to that effect.

In regard to the belts you are using in Lawrence, we would call your attention to the fact that we are using 10" belts in the same connection at other places and they are giving perfect satisfaction. We therefore see no reason why they should not prove satisfactory at Lawrence.

On the 15th. inst. you asked us to supply you with two more "H" dynamos, and they were shipped on the 22nd., for which we enclose bills of lading. You also asked us for another 14" x 13 engine, and this will be forwarded either to-morrow or the next day, also the bedplate and washers.

We instructed Messrs. Bergmann & Co. to send you some of the new indicators on the 17th. of the present month, which was the earliest date we could issue such an order, on account of the appliances not having been completed until a few days prior to same. We regret that we have not sufficient control over Messrs. Bergmann & Co's affairs to insure more prompt delivery of orders

1883-12-26

2

placed with them on your account.

We are sorry you considered it necessary to write us in such a tone as that embodied in your communication of the 22nd. inst., and we shall be obliged if, in future, you will kindly suppress any suggestions as to the management of our affairs.

We are doing all we possibly can for you and we do not feel that you are justified in writing us letters of this nature.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Tak*

Enclosure, d.

1883-12-26

New York, December 26th, 1883.

65 Fifth Avenue,

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

My Dear Insull:-

We have been daily expecting an autograph communication from you, but up to the present time the only thing which has come to hand is a cablegram, from which we have ascertained that you are sojourning in Paris.

In relation to the letter which you wrote going down the Bay for Major Eaton, I enclose herewith copy of a communication we received from him in reply to the one you sent him. We have done nothing whatever in the matter and are holding it until you return.

The Fall River station was started very successfully on the 14th. inst., and has been running very smoothly ever since.

Andrews and Conant went to Tiffin to-night to commence work there on the inside of the station. Mt. Carmel is ready to be wired, and Bellefonte and Harloton will be ready on the 1st. January.

In my last letter I told you that the Williamsport contract had been closed, but that the street installation was under consideration. That Company have agreed to accept our map in accordance with the new canvass and last determination. This determination is a much cheaper one than the old one, notwithstanding the fact that we included about 2,000 feet more mains.

1893-12-26

The above Company have not yet paid the first instalment on account of their contract, but I am to-night in receipt of a telegram from them in which they state that the money has not all been paid in, but that they will send a check to-morrow or Friday for a portion of it.

In regard to finances, possibly a history of the way I had to "skin" through on Saturday last will interest you. When Mr Edison left here on Tuesday he promised me he would be back Friday night. I have tried to impress him as much as possible with the necessity of being here to sign payroll checks, and he seemed to take it all in. I got three checks from him on the Germania payable to my order, and feeling confident that he would return I disposed of two of them, in fact I had to dispose of these as the payments were necessary, one on account of the Machine Works and the other for Luosi, who is frightfully hard up. Saturday morning just about when I was expecting Mr Edison to arrive and opening my mail you can imagine my horror upon receiving a note from him dated Fall River saying that the snap was booming, that he was going up to Haverhill to try and close that up and would not be back until Sunday. I had about \$2,400. In the Germania I only had \$2,000., I had a check for \$1,300. for the Machine Works which I could not deposit, as I have no power in that connection with these Works; and in the Bank of the Metropolis I had about \$1,000. I stood the shock with Christian fortitude and bravely went for the mail again, where I came across a check for \$1,000. sent most unexpectedly by Garrison in part payment of the Brockton extras. This check was for Thomas A. Edison,

Sunbury, and wanted us to close a contract with them without having a canvass made, and in fact without ever having before seen a representative of the Edison Electric Light Company. The same thing is reported from Circleville, where the people say that they cannot wait for a canvass to be made and want us to go ahead and put the light in without it. You see that the "snap" is going to "boom" tremendously next year.

Mt. Edison has gone up a point and reached my figures, and is now firmly of the opinion that we will do \$3,000,000. worth of work during 1884.

STATIONS. Yiffin station is ready for the wiremen to go to work on the inside, and Andrews will have his men there in a few days. The pole lines are all completed, and Hibler goes to Bellefonte to put up the lines there immediately. The Mt. Carmel building is completed, and the machinery is being set. Bellefonte is in the same condition and the Hazleton building had the roof completed to-night. Rich has got a good man for pole line work at Mt. Carmel, and we will not be delayed in this matter at all. The Middletown building is in the course of erection. You will remember, no doubt, that the amount allowed for this building in the estimate was \$2,210., and the estimate stated that it was to be a frame structure. When Rich was here, on Sunday last, I discussed the point with him, and decided that on account of brick being so cheap at Middletown, it would create a much better impression if we were to erect a building of this material, and I

1883-12-26

gave Rich instructions to this end:

I had a letter from Shaw asking us to put up a brick building at Piqua. The amount allowed in the estimate for this building was only \$1,350., and it was to be the same size as the Middletown building. I wired Shaw that we would erect a brick building at Middletown, and that we would put up a brick building at Piqua for \$2,210., the same price as the former. To-night I have a telegram from him accepting the figures, and I have wired Rich accordingly. The foundations of this building are being put in at the present time, and Rich says that there is a good margin on those figures.

Major Eaton sent up a letter from Mr. Hoffinger of New Orleans, and the prospects of closing this contract are excellent. They have over half the capital stock subscribed at the present time, and the affair is almost as good as settled.

St. Louis, from Brewster's report which the Major sent up to-day, looks a little "blue" again, but this will eventually go through.

In regard to the Danbury installation, you will recollect that this was one of the estimates which we made before we discovered that we were about five per cent out on our general expenses. The day after you left I asked Mr. Edison if it would not be a good idea to give Harris & Robinson six days to close out that business, and if they failed to do it in that time the estimate was to become void, and a fresh one substituted.

He approved of the suggestion, and to-morrow the Danbury estimate gives up the ghost. - They had a meeting in Danbury last night, the result of which, in connection with the acceptance of our estimate, has not yet been communicated to this office, but I do not anticipate the acceptance of it. I hope you will endorse this action, as, in my opinion, we have been working for love long enough and are ~~xxxxx~~ justified in taking the proper means to protect ourselves in the future.

Before you return we will have all the plants now under way running, I think, without any exception.

Everything has gone along without a hitch since your departure.

The shorthand man you engaged has turned out to be of no use, and I have arranged to get another man. I will have him properly broken in before you come back. He is to come at the same figure as the man who leaves is getting.

I cannot at the moment think of any other points of interest, but I will write you regularly now every few days, and keep you thoroughly posted as to what is going on.

Kruesi came to me the other day and took me into a corner very confidentially. I noticed that there were tears in his eyes and that he was very much agitated, and he asked me if I had ever been connected with any machine works, and upon informing him that I had, he wanted to know if patterns were regarded as an available asset!!!!



1883-12-26

G.

Trusting that you may have a very Merry Christmas and  
Happy New Year, which is stereotyped, but none the less sincerely,  
and also conveying the same wish from our friend Mr. Gilmore, who  
since you left has "kicked" like a mule against working on Sunday,  
believe me to be,

Very truly yours,

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

1883-12-26.

December 26th.

Spencer Horden, Esq.

P. O. Box 3311,

Boston, Mass?

Dear Sir:-

I have your letter of the 24th. inst. in regard to  
Mr. Bancroft, and in reply beg to say that I have written to that  
gentleman complimenting him on the able manner in which he per-  
formed his work at North Adams.

Very truly yours,

*Yours*

1883-12-26

December 26th, 83

Messrs. Alden & Sterne,

2 West 14th, Street, City.

Dear Sirs:-

In reply to your communication of the 20th. inst. I beg to say that we had to find the lots to get up our specifications. The Company cannot do anything until the specifications and plans are ready, and this will take about two months.

Very truly yours,

*Saw*  
*J*

1883-12-26

December 26th. 3

W. S. Andrews, Esq.

Tiffin, Ohio.

Dear Sir:-

We are in receipt of a letter from Mr Rich in which he says that the Mt. Carmel station is ready for wiring, and that Hazleton and Bellefonte will be in condition for your men on the 1st. January.

You will have to make some pretty lively moves to take those all in on time.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*ae*

1883-1226

December 20th. 3

J. F. Rynn, Esq, V. P.

Tiffin, Ohio.

Dear Sir:-

We referred your letter of November 30th., in regard to the paragon cable, to Mr. Walker, and we have informed him that whenever parties are willing to take the risk as regards the wire being approved by the Underwriters it is all right to supply them with it. The advantages afforded by the use of this cable make it a much more desirable article than any other wire in practice at the present time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Ray*

1883-12-26

December 26th, 3

W. L. Garrison, Esq., Treas.

P. O. Box 3027,

Boston, Mass.

Dear Sir:-

In regard to a communication which we received from you some time ago in relation to a Cromwell Heat Controller, we referred the matter to our Superintendent, Mr. Rich, and in reply he states that the day before he left Fall River he received a letter from the Cromwell Bros. about the heat controller at Brockton, saying they were ready to take it out if it was not satisfactory, and if it was satisfactory they desired to be paid for it. Mr. Rich immediately wired Mr. Johns asking him if the heat controller had been tested, according to the agreement made with the Cromwell Bros., which agreement was to have the coal carefully weighed and they to fire the boiler one week and our engineer to fire it the next week, they to fire it the third week and our engineer the fourth week. Then the figures were to be submitted to us and, if it appeared that they had saved five per cent over the old style of damper, we were to take the controller and pay the amount, otherwise they were to remove it at once and put the brick work in as good condition as it was prior to the introduction of the heat apparatus.

Mr. Jenks replied that they had not weighed the coal, but that the engineer thought it saved fuel. Mr. Rich considered that such a test would not justify the purchase of the apparatus, notwithstanding the opinion of the engineer, as he had heard these party say previously that he had a very poor opinion of the damper, and stated that unless they could comply with the terms of the agreement he would not purchase the heat controller.

If the Cromwell Bros. still wish to fulfill the conditions of the contract, our Superintendent will receive their figures and give the matter due consideration.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AE*

1883-12-26.

Edison, T.A.

- Personal

December 20th. 3

D. W. Burrell, Esq.

Little Falls, N. Y.

Dear Sir:-

I have your letter of the 21st. inst. in regard to separating cream from milk, and in reply beg to say that I have not forgotten the matter, and just as soon as I get my electric light affairs in shape I am going to work up several industrial enterprises, of which this will be one.

Very truly yours,

Tah  
3



1883-12-26

December 26th, 1883.

Gustav Solder, Esq. Supt.

-104 Goerck Street, City.

Dear Sir:-

We enclose herewith a letter from Mr. Dwellley in reference to the Flint Mill installation.

Please have the switch board and belts he speaks of sent forward immediately, together with two more tracks of uniform size to correspond with those of the other "R" machines. This installation is an important one, as we expect more orders, providing it is satisfactory, and we wish you to pay particular attention to the statements and requests made by Mr. Dwellley in this letter.

Yours truly,

Thomas Edison & Co. Works,

By



Enclosure, s.

1883-12-26

*Patents*

December 26th. 8

R. Rogers, Secty. Pro Tem,

The Edison-Gower-Bell Telephone Co. of Europe, Ltd.

34 Walbrook Street,

London E. C. England.

Dear Sir:-

I have your letter of the 7th. inst., and in reply beg  
to say that I have sent you this day by registered mail my Italian  
Telephone Patent No. 9791, granted February 8th. 1878.

Please acknowledge receipt and oblige,

Very truly yours,

*Wm*

1883-12-26

December 26th. 3

George W. Wilber, Esq.

Post Office,

Knoxville, Tenn.

Dear Sir:-

We have your letter of the 23rd. inst., and in regard to the width of buildings we beg to say that the red figures in the model canvass sheet sent you represented the distance between isolated buildings.

In relation to trees, please give the number on each block face, and if evenly distributed, say so, and if not evenly distributed, merely mention the fact without giving the distance between each <sup>tree</sup> ~~tree~~. I.C.D. means "First Class Dwelling."

After yours and in your first canvass in accordance with the new process, we will be able to tell exactly upon what points you are deficient, and you will be immediately advised as to where corrections should be made.

We note your remarks in regard to the difficulty you have in obtaining money by check, and in future we will either send it by postal order or will telegraph it to you, waiving identification, which will obviate all difficulties. Each time you arrive in a new town,

Please wire us at once your hotel address. When you

1883-12-26

2

were in Mobile we had two or three telegrams returned to us with the statement that George W. Wilber was unknown in that city.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*aoq*

1883-12-26

December 26th. 3

W Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

In reply to your letter of the 16th. inst., wherein you referred to printed answers to questions on Meters &c., Mr. Edison states that he gave you a copy himself before the six copies were sent to Brockton. Mr. Edison states that he left Brockton before these latter copies arrived, and that he certainly gave you one and told you to mark your name in it. We wish you would make a thorough search for this, however, as it is very desirable that it should not fall into other hands than those of our electrical employees.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-26

December 26th. 3

W. L. Garrison, Esq. Treas.

P. O. Box 3027,

Boston, Mass.

Dear Sir:-

We beg to acknowledge with thanks receipt of your letter of the 21st. inst. enclosing check for \$1,000. on account.

We communicated with Mr. Jenks to-day in regard to the change you desire made at Brockton, specifying the material we propose to supply you with. Mr. Jenks will no doubt communicate with you on the subject.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-26

December 20th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 21st. inst., and in regard to the shipment of material in connection with the wiring of buildings if you intended Messrs. Baxter & Brown to pay for the material which was shipped to Tiffin, you should have instructed them to send us an order. We have no doubt that it would have been all right to ship the mater on your order, but we much prefer to have written authority from the parties who have to bear the expense of the material, which avoids any discussion that might take place as to who is responsible for ordering it.

We are very anxious that you should leave Tiffin as soon as possible, but on the other hand do not desire you to go to any other point until you consider Messrs. Baxter & Brown thoroughly competent to take full charge of the Tiffin work.

In regard to the new cable, where parties are willing to take the risk as regards insurance it is all right to supply them with it.

Yours truly,  
Thomas A. Edison Constr. Dept.  
By

*A. A.*

1883-12-26

December 26th. 3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In regard to a communication we received from you some time since, wherein you state that when you fed your boilers with cold water the steam was so damp that it would not do more than ~~more~~ half duty although the pressure remained the same, and wherein you claimed that the trouble was in connection with the injector connected with the boiler, we referred those statements to our Superintendent, Mr. Rich, and in reply he says that it is impossible for any injector to feed cold water into a boiler under a pressure of 190 heat, which is the lowest temperature, as indicated by the thermometer attached to the injector. He further states that the connection with the new boiler is made precisely at the same point as on the boiler which was first set, and that the real trouble is that the engineer carries the water too high in the steam drum. If he would adjust the injector so as to gauge a constant feed according to evaporation and not allow the water to rise above the second cock, you would find no cause for complaint, neither would there be any danger of bursting the cylinder heads or syphoning water from the boiler. Mr. Rich says that he is confident this is the trouble at Lawrence, as the same thing was met



1883-12-26

2

with at Brockton with the first engineer we employed there.

Our Superintendent will visit Lawrence shortly and explain these matters to you in person, and endeavor to adjust the difficulties with at the present time.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*A. E. S.*

December 26th.

3

W. J. Jenks, Esq. Manager,

Brockton, Mass.

Dear Sir:-

Replying to your letter of the 21st. inst., we beg to say that when we submitted our bid for the change at Brockton, amounting to \$1,290., it was our intention to undertake to do the work in connection with making this change, except as regards alterations to the engine. We should, however, prefer you to do the work in connection with setting up the new machines, and beg to submit the following proposal:-

We will supply you with material as below at the prices named:

Two 400 light dynamos (10 candle power).....	\$ 1,067.50
Two belts for same.....	80.35
Two regulators for the above machines.....	115.00
Switches for same.....	13.00
Two double dynamo switches for changing circuits.....	49.40
Repairing 800 light machines.....	30.00

Total.....\$ 1,952.01

We will take back from you, one 800 light dynamo and one belt, allowing you \$1,400. for the former and \$30. for the latter. This will leave an amount to be paid us of \$552.01

1893-12-26

December 20th.

2

You will do all work in connection with putting up these machines, pay expenses of boxing and shipping the machine and bolt returned to us.

Please let us know if this will be satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Aoy*

1883-12-26

December 26th. 3

Charles P. Lyon, Esq.

Post Office,

Pottsville, Penna.

Dear Sir:-

In reply to your letter of the 22nd. inst., we beg to say that we consider it advisable for you to obtain as much information as possible in regard to real estate for sale in the different towns you canvass. There are no regular report forms calculated to embody this information, and you can send it to us in a letter.

Yours truly,

Thomas A. Edison Consin. Dept.

By

*A. E. D.*

1883-12-26

December 26th. 3

Thomas M. Rightor, Esq. Treas.

Mt. Carmel, Penna.

Dear Sir:-

In reply to your letter of the 17th. inst., we beg to say that we will extend your lines from Fifth Street along the alley between Maple and Oak Streets to Sixth Street, in order to take in your house, without extra charge to your Company. This concession will cost us about \$100. more than we have allowed for in our contract, but inasmuch as you state Mr. Edison promised it, we will of course undertake to do the work.

In regard to running along Sixth Street instead of Fifth Street, this change would alter our electrical determination and would render useless the greater part of the wire we have shipped to Mt. Carmel. Your house can be taken in by a service from the entrance on Sixth Street to the alley between Maple and Oak Streets. It is impossible for us to make any other changes in this installation, and we trust you will be satisfied with the alterations made in accordance with this letter.

Please show this communication to Mr. Schwenk, and tell him that it answers his communication of the 17th. inst.

Very truly yours,

Thomas A. Edison Genl. Dept.

By

*A. A. J.*

1883-12-26

December 29th. 3

John M. Stewart, Esq.

2096 Third Avenue, City.

Dear Sir:-

In reply to your letter of the 19th. inst., I shall be glad to have you call at this office as early as possible, bringing with you any letters of recommendation which you may have.

Yours truly,

*Zak*

*J.*

1883-12-26

December 26th. 8

N. Y. Safety Steam Power Co.

30 Cortlandt Street, City.

Dear Sirs:-

Will you please let us know the price, together with  
your best possible discount, for your vertical engine cylinder  
3 x 5, and designated in your catalogue of November, 1883, as  
figure No. 5. If we can make satisfactory arrangements with you  
in regard to prices we may adopt these engines in all our central  
stations, and will probably be able to place large orders with  
you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Wey*

1883-12-27

Dec. 27th. 3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

Referring to the amount of \$2,000 which is still outstanding on our books against your Company, we should very much to know what your intentions are as regards the settlement. You are no doubt aware that as far as we are concerned the Shamokin Installation, was financially a heavy failure, and in consideration of this fact, we are compelled to urge you to make a speedy settlement of the balance now due us. The date of the bill which was made out to your Company, specifying the material which had been supplied on account of the contract, is October 13th., and from that date we will charge you interest at the rate of 12 per cent per annum. We can assure you that this interest by no means compensates us for the loss we are sustaining through the tardiness of your Company. We turn our money so quickly that the principle yields much more by being in our hands, so that we can directly control it, than by being let out at any rate of interest, which it would appear reasonable to charge. We can assure you that it is as distasteful for us to have to remind you of this matter so often, as it is for you to re-



1893-12-27

Dec. 27th. 3

ceive our letters, at the same time we think that we are not being justly dealt with, when the affair is left dormant except at such times as it is brought directly to your attention by letters from this Office.

We trust you will therefore send us a check for the full amount upon receipt of this letter, together with \$50.00, which is the interest from the date of your bill, namely October 13th, to the present time, and which is charged to you at the rate above mentioned.

Very Truly Yours,

Wak

1883-12-27

Shamokin

Dec. 27th, 3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

In relation to the 150 temporary fixtures which you returned from Shamokin, and for which you desired us to give you credit, we beg to say that the amount charged you for these fixtures was 48 <sup>1</sup>/<sub>2</sub> cents each. We shall therefore have pleasure in allowing you the same rate, as the fixtures are in order and we can use them elsewhere.

In November we wrote you a letter in regard to our account, and some errors which were made therein, in connection with calculating the amount to be deducted for certain work which was not performed. By referring to the said letter, you will find that you credited your account with \$56.92 too much. The amount which we will allow you for 150 fixtures is \$72.75, and after deducting the overcharge referred to we will owe you \$15.83.

We wrote you to day in reference to the balance still due on your contract, and asking you to send us a check for \$2,050. If you will therefore make this check for \$2,034.17 it will square our accounts.

Very Truly Yours,

Gae.

1883-12-28

December 28th. 3

J. V. Kirby, Esq.

Essex House,

Salem, Mass.

Dear Sir:-

In reply to your letter of the 20th. inst., we beg to say that after you are through with the Lawrence company we can probably do something for you.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. J. G.*

1883-12-28

December 28th. 3

John Mullen, Esq. Treas.

Shenokin, Ponna.

Dear Sir:-

I have your letter of the 26th. inst., and in reply  
beg to say that I do not quite understand the meaning of it.  
I have no stock in the Shenokin Company. There is a balance of  
\$2,000. due on our contract, and I have written Mr. Douty in rela-  
tion to it to-day.

Very truly yours,

*J. M.*  
*J*

1883-12-28

December 28th. 3

M. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In relation to your letter of the 15th. inst., wherein you asked us to supply you with two more "H" dynamos and another 14<sup>1</sup>/<sub>2</sub> x 18 engine, which necessitated the bedplate and washers, we presume the dynamos have been received in Lawrence, the bedplate and washers were shipped yesterday and the engine is being loaded to-day.

Will you be kind enough to send us your check for \$1,277.50, which is twenty five per cent of the amount of this order, and which should be paid to us upon the reception of your requisition, in accordance with the terms of our agreement.

The above amount is made up as follows:-

Two "H" dynamos.....\$ 3,000.

One 14<sup>1</sup>/<sub>2</sub> x 18 engine..... 2,000.

Bedplate and washers..... 70.

Will you not require some more electrical apparatus in connection with this addition to your station? Shall we get a

list of what is necessary from our Electrical Engineer, Mr. Andrews, or will you send us a requisition for what you want?

Yours truly,

*Jale*

1883-12-28

December 28th. 3

W. S. Andrews, Esq.

Tiffin, Ohio.

Dear Sir:-

We have received a telegram from the Secretary of the Tiffin Company in relation to services, and in reply to same we told him that Mr. Conant would give all necessary explanations as to how the customers are to be cut in. We have forwarded the wire for this purpose and if any other material is required wish you would be good enough to have the Company send us a requisition for it.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. M. Y.*

1883-12-28

December 28th. 3

H. Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have this morning received your letter of the 26th. inst.

The No. 85 copper wire you speak of will be expressed to-day or to-morrow.

In relation to drawing upon us, we beg to inform you that this is a privilege which we very rarely extend to our employees, and only in cases of absolute necessity do we allow them to make drafts on us for money. If you desire it we shall be glad to send you a check once a week for your salary and allowance, or at such intervals as you would prefer.

Mr. Andrews gave us a requisition for the material mentioned in your letter, and his request is having our attention.

We enclose herewith check to balance your account to date.

Yours truly,

Thomas A. Edison Constr. Dept.

By



1883-28

December 28th. 3

W. L. Garrison, Esq. Treas.  
N. O. Box 3627,  
Boston, Mass.

Dear Sir:-

In accordance with your request we have pleasure in enclosing herewith a detailed statement of our account against you for \$1,170.42, which was the one you wanted us to itemize.

If you have any counter charges, we wish you would be kind enough to send us a statement of them at the earliest possible moment, as it is our desire to close this matter out and obtain whatever balance may be due us, as we wish to use the money. In accordance with the statement sent you you still owe us \$627.42

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. H.

Enclosure, b.



1883-12-28

December 28th. 3

James Harris, Esq. Secty.

Bellefonte, Penna.

Dear Sir:-

We have received your telegram of yesterday's date in regard to the Bellefonte street installation, and in which you state that the wires do not extend to Minn & Curtin Streets, as agreed with Mr. Shaw.

In reply we beg to say that we know nothing of Mr. Shaw's statements in connection with this matter. On the 2nd. November we sent Mr. Shaw a letter enclosing an estimate for the erection of an Edison Electric Light Central Station Plant of 500 lights capacity and amounting to \$14,741.00, together with the forms of agreement, map showing the proposed course of our conductors and plan of the general arrangement of the station we proposed erecting. We called Mr. Shaw's attention to the fact that there were 843 lights covered by our wires. The next day we got a telegram from Mr. Shaw asking what it would cost to increase this plant to 800 lights, and on November 5th. we wired him that to make a Bellefonte estimate for 800 lights capacity, instead of 500 lights capacity, would increase the figures sent him on the 2nd. November by \$2,310. This brought the amount of our estimate up to

1893-12-28

2

\$17,071.00 Your Company made some few deductions in the minor details of the estimate, which reduced it to \$10,507.27

You will see from this that the subject of the change in the street installation was not broached at all, and that the increased capacity of the station was made in view of the fact that there were 843 lights in the district, and that it would be advisable to take them all in.

We will send you to-morrow our figures for making the extension you desire, and if they are accepted we will have the material sent forward immediately.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*Talc*

1883-12-28

December 28th. 3

W. H. Ouelley, Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your check for \$4,000. on account of the Fall River installation, and in reply to your letter under same cover, in which you say you had made the third payment, we would state that at the time the station was ready to supply light there was an amount of \$2,314.45 on account of the third payment due us, which was made up in the following manner:-

Ten per cent of the amount of our contract, namely, \$4,180.00, was paid upon the signing of the agreement; twenty per cent, namely, \$8,361.00, was to have been made on October 28th.; and twenty five per cent, namely, \$10,438.47, was to have been paid when the installation was ready to supply light. These payments aggregate \$23,995.48

The amounts received from you are, as stated in your letter, \$4,180.00, \$8,000. and \$8,500., making a total of \$20,680.00. This left a balance of \$2,314.45, which we mentioned above as being due us last week and it was this amount we had reference to when we telegraphed you.

1983-12-28

2

We are very much obliged for the check you sent us and  
have given you credit for same.

We return herewith receipt.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure, a.

1883-12-28

December 28th. 3

E. C. Acheson, Esq.

18 East Street,

Red Lion Square,

London, W. C. England.

Dear Sir:-

In reply to your letter of the 13th. inst., to hand today, I beg to say that we can give you a situation, but cannot at the moment say definitely what it will be, and if you come over it will be necessary for you to take whatever turns up.

Very truly yours,

*W. C. Acheson*  
7

December 30th, 3

E. H. Hubbard, Esq. Secty.  
Tiffin, Ohio.

Dear Sir:-

We have received your telegram of the 25th. inst.  
regarding the service wire, and in reply beg to say that Mr. Conant  
will give all explanations in relation to cutting in customers and  
the running of service wires, material for which purpose has been  
forwarded to Tiffin.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-28

December 28th, 8

W. D. Rich, Esq.

Hellefonte, Penna.

Dear Sir:-

In relation to the map sent you showing the course of the pole lines at Mt. Carmel, we beg to say that we have agreed to extend our line on Bear Alley from Fifth Street to Sixth Street. It will necessitate about four more poles and we have ordered forward the additional wire. We send you another map showing the extension referred to.

Yours truly,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-28

December 28th. 3

W. D. Rich, Esq.

Bellefonte, Penna.

Dear Sir:-

In reply to your letter of the 22nd. inst., wherein you make a sketch of the Bellefonte building, we beg to say that your arrangement is the only one which, under the circumstances, will answer, and we will alter our plans to conform therewith.

Yours truly,

Thomas A. Edison Constn. Dept.

By





1883-12-28

December 28th. 8

Sidney H. Paine, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

In reply to your letter of the 27th. inst., we beg to say that an 800 to 1200 light plant, pole line, varies from \$23. to \$26. per light. This cost includes the running of the station for thirty days at our expense after same is ready to supply light. The machines which we would use in connection with a 1200 light plant would be two "Y" dynamos, which give 800 ton candle power lamps each, and one <sup>1</sup> 2 x 12 engine. You of course understand that it is difficult to approximate the cost of any plant, as there are such a variety of circumstances which cause the amount to vary.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*AOH*

1883-12-28

December 28th. 8

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We beg to inform you that we are still awaiting information in connection with real estate for Lima and Washington C. H., Ohio, Cynthiaana and Haysville, Ky. and Canton and Chillicothe, Ohio.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*ROY*

December 28, 1883-12-28

28

Societe d'Appareillage Electrique,  
Geneva, Switzerland,

Dear Sirs:-

Your letter of the 27th. October has remained unanswered until the present time in order that some new types of dynamos which I had under course of construction might be finished. This work has now been completed, and I have the pleasure to enclose herewith the report of our Mr. Clark, who is the Engineer of the Edison Electric Light Company, and which report will answer all the queries contained in your communication referred to.

The price of the new 200 light dynamo is \$725., F. O. B. New York, with regular winding, for higher volts probably be \$75., more each.

Trusting that this information will not arrive too late to be of service to you, I beg to remain,

Very Truly Yours,

JAE

Enclosure, 1.

1883-12-28

65 Fifth Avenue,

New York, December 28th, 1883.

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

My Dear Insull:-

In my letter of last evening I mentioned to you that we had a list of the stockholders in the Williamsport Co., and that we were going through Bradstreets to ascertain their standing. None of them are quoted. Shaw and young Detwiler were in here yesterday and told us that they were all professional men and were not given a rating. We find that P. E. Shaw, Dr. Detwiler and young Detwiler hold about one third of the stock. We are going to send Russell to Williamsport to find out all about this business, which looks very "fishy." They have not yet, as I stated in my letter, paid in ~~the~~ the first instalment, and in our opinion we think the intention of this Company is to sponge together twenty five per cent of the amount of our contract, after which nothing will be due us until the installation is ready to supply light. Upon our getting this far in the matter they imagine it will be impossible for us to withdraw, and they can make us carry it until they dispose of the large amount of stock held by the above mentioned trio. None of these three luminaries have one dollar to rub against another, and I think we are justified in drawing these conclusions in connection with their inco-

1883-12-28

2

tions. We have not sent out a single order yet, nor do we intend to until the matter has been thoroughly investigated and we feel perfectly satisfied that our money will be forthcoming when it is due.

Very truly yours,

*W. H. C.*

1893-12-29

December 28th. 3

A. A. Cowles, Esq. Sucty.

Ansonia Brass & Copper Co.

10 Cliff Street, City.

Dear Sir:-

Allow us to introduce to you Mr. C. F. Hanington, who  
was formerly one of the partners in our late Wiring Department.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*A. E. J.*

1883-12-31

December 31st. 3

N. S. Fissell, Esq.

2413 Prairie Avenue,  
Chicago, Ills.

Dear Sir:-

We have your letter of the 28th, inst., and in reply to your Par. 1, Q. 1. beg to say that we are daily expecting an answer from Mr. Shaw in regard to your assisting him in Penna.

In relation to your P. 2., we beg to say that the canvass of Knoxville has been completed, and we expect to receive it to-morrow.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-31

December 31st. 3

W. D. Rich, Esq.

Hollofoote, Penna.

Dear Sir:-

In reply to your letter of the 27th. inst., in relation to the injector at Tiffin, we beg to say that we have discontinued the use of exhaust injectors, and have adopted the "Porting" injector.

We will send you a supply of instruction cards, which you can distribute as you see fit.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Aoy*



1883-12-31

December 31st, 1883.

George W. Bliss, Esq. Gen'l. Supt.

Chicago, Ills.

Dear Sir:-

In reply to your letter of the 22nd inst., in which you state that you were furnished with "K" brushes with "C" dynamos, we beg to say that we use "K" brushes in the old style brushholders of the 25 and 50 light machines. We recently changed the brushholders on these machines and used "H" brushes in connection with them. It is now our intention to use double brushes on all machines.

When the dynamos you speak of were tested at our Works we had no trouble with the brushes or brushholders in question.

Very truly yours,

The Edison Machine Works,

By

*J. A. L.*

1893-12-31

December 31st. 3

W. H. Dwalley, Jr Esq. Treas.  
Fall River, Mass.

Dear Sir:-

In relation to exchanging the 8<sup>1</sup>/<sub>2</sub> x 10 engine at Fall River for a 12 x 12, we beg to say that we will supply you with material and labor as follows:-

One 12 x 12 engine.....	\$ 1,100.00
Foundation.....	94.30
Foundation cap and washers.....	31.88
Foundation bolts and pipe.....	<u>9.53</u>
Total.....	1,235.71

We will give you credit for the following material:-

One 8 <sup>1</sup> / <sub>2</sub> x 10 engine.....	\$ 250.00
Cap and washers.....	30.39
Bolts and pipe.....	<u>7.09</u>
Total.....	387.48

This makes the cost to you of the above change \$847.63, but in addition to this amount we shall ask you to pay the salary, expenses and railway fare of our man, whom it will be necessary to send to Fall River to do the work.

Will you kindly let us know if this will be satisfactory

1893-12-31

2

at the earliest possible moment, Armington & Sims having a great many orders booked, and we may have trouble in getting the 6<sup>1</sup>/<sub>2</sub> x 12 engine promptly, and the sooner we get our order in the better.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *TAE*

1883-12-31

December 31st. 3

Winfield S. Hutchinson, Esq.,  
53 Devonshire Street,  
Boston, Mass.

Dear Sir:--

I have your letter of the 20th. inst. in relation to  
powers of attorney for Mr. Jose D. Husbands, and herewith I beg to  
enclose these documents properly executed.

Kindly acknowledge receipt and oblige,

Very truly yours,

*W. S. H.*

1883-12-31

December 31st, 1883.

J. S. & W. Pockham,

Utica, N.Y.

Dear Sirs:-

In relation to mica, we beg to say that we sent the samples your Mr. Pockham left at this office to the Superintendent of our Works, and had him weigh them, after which he cut them into sizes that he could use and weighed them again, so as to ascertain the cost of the mica to us properly cut. The result of the experiment has been that 30 cents per pound is too high a price for us to pay for mica, such as the sample sent us.

Very truly yours,

The Edison Machine Works,

By

*J. A. G.*

1883-12-31

December 31st, 1883.

Gustav Soldan, Esq. Supt.

104 George Street, City.

Dear Sir:-

In relation to paper pulleys, do you not think it would  
be a good idea for us to adopt them in future?

Yours truly,

The Edison Machine Works,

By

*A. O. G.*

1883-12-31

December 31st. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Mr A. S. Hissell, who has lately been in Knoxville working up the interests of the Edison light at that point, requested us to write to you and ask you if he could in any way assist you with your work in Pennsylvania. We do not know whether you are acquainted with this gentleman or not, but if you desire any information in regard to him and his capabilities, no doubt Mr Hastings could give it to you.

Awaiting your reply, which Mr Hissell requests us to transmit to him, we are,

Very truly yours,

Thomas A. Edison Genl. Dept.

By

*Gay*

December 31st. 3

Messrs. Schwank, Esq. Prest.

Mt. Carmel, Penna.

Dear Sir:-

In reply to your letter of the 28th. inst., we beg to say that we will have our wireman at Mt. Carmel at the earliest possible moment. We have had to start so many stations all at once, and as expert help of this character is <sup>hard to</sup> obtain, it being necessary for us to educate all our electrical employees, that we are rather short of men, but we will delay the work at Mt. Carmel to as small an extent as practicable.

We wrote to Messrs. Bergmann & Co., asking them to hurry your material.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-31

December 31st. 3

James Harris, Esq. Secty.

Hellerfonte, Ienna.

Dear Sir:-

We have your letter of the 26th. inst., in which you state that there seems to be a misunderstanding in regard to what you are to receive under agreement for an 800 light plant.

In reply to your letter, we beg to enclose herewith six copies of the 500 and 800 light estimates. You will notice that in each case the amount for the street installation is exactly the same, namely, \$4,050.15, and the map showing the course of our street installation which was submitted with the 300 light estimate is exactly the same as the one submitted with the 800 light estimate. You will observe that the district in each case covers 848 lights, and we presumed that it was in order to take in all those lights that you requested us to submit an 800 light estimate, instead of a 500 light. The amount of the 300 light estimate is \$14,761.00; the amount we charged you for increasing the capacity of your plant to 800 lights, instead of 500 lights, was \$2,810. This brought the amount of the 800 light estimate up to \$17,071.00, but your Company deducted some of the smaller supplies, which they preferred purchasing themselves, which reduced the amount of the estimate to \$16,567.27

We are at a loss to understand your statement that your Company have never seen a copy of our 600 light estimate.

Mr. Shaw was given this estimate, and after the Bellefonte Company had made these deductions in the minor details, of which we have spoken, he had the estimate typewritten and returned to us, and we have this copy in the office.

The amount of the increase was for changes in the boiler, engine and dynamos, which all had to be of larger capacity, also for a larger building.

In connection with this building, after our contract was closed you desired it made larger still, and allowed us \$200. for extending it. This makes the amount of our contract with you \$10,767.27

We trust that as far as we are concerned this explanation will be satisfactory to you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *TAC*

Enclosure, c.

1883-12-31

December 31st, 1883.

Gustav Soldan, Esq. Supt.

104 Guerck Street, City.

Dear Sir:-

We have your letter of the 25th. inst. reporting test n  
on the special "Y" dynamo.

What I want to ascertain is the non-sparking point sharp-  
ly defined? With same amperes is the position of non-sparking  
point the same and does the brush have to be adjusted finer to  
obtain non-sparking point?

Also please let me know if the new iron gives higher  
volts?

Yours truly,

*G. S.*

1883-12-31

December 31st. 3

Charles P. Lyon, Esq.

Post Office,

Pottsville, Penna.

Dear Sir:-

In relation to your canvasses, in future when mentioning tenement houses, will you please simply state "tenement" and not class them as second, third or fourth. Please do not take any notice on your canvass of fourth class houses, and also be kind enough not to abbreviate your canvass and call a restaurant or bar "R", but write out in full what it is, and very much oblige,

Yours truly,

Thomas A. Eblin Constr. Dept.

By



1883-12-31

December 31st. 3

Messrs. Markle & Hall,  
33 Congress Street, W.  
Detroit, Mich.

Dear Sirs:-

In relation to the Ypsilanti lot, we presume you are aware that there is a building on it. We should like to have a carefully figured sketch or drawing of this building, showing the exact size inside, also showing ~~the exterior walls, depth excavated below grade of street, position of columns or interior walls, if there are any, also size of floor beams and distance from centre to centre of same. Are side walls and ceilings plastered or sheathed with boards?~~

We would beg to call your earnest attention to the fact that this information must be very accurate, and we should like the plan made on as large a scale as possible. Immediately on receipt of this data we will forward you the Ypsilanti estimate, all matters in connection with which must remain in abeyance until we hear from you.

Very truly yours,  
Thomas A. Edison Copin, Dept.  
By *A. E. Y.*

Major Insull:-

(1883)

Referring to your memo of this date about Shamokin

all I can say is that Armington & Simsman makes the assertion that the piece of the regulator which was reversed was put on by a local engineer, before he arrived there. This is denied by the man who is supposed to have done the work before Armington & Simsman arrived at Shamokin. Now although they insist that they were not at fault, I see no reason to doubt Armington & Simsman, nor do I see any reason particularly to doubt the local people, except that a man who makes a mistake usually tries to cover it up and the assumption is, that the man that Armington & Sims would send to Shamokin would know something about fixing up the regulator of their engines, whereas the employee of a local machine shop would in all probability know nothing about fixing up such an engine.

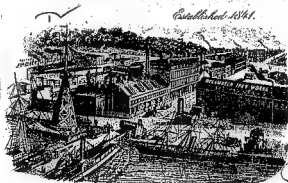
S. Insull.

By. H.

**1883. Edison, T.A. - Suppliers (D-83-017)**

This folder contains correspondence and other documents relating to suppliers of equipment and materials for Edison and his companies. Many of the documents deal with supplies obtained for the construction of central stations by the Thomas A. Edison Construction Department. The items filmed contain significant Edison marginalia or provide significant information about the equipment or materials being purchased.

Approximately 10 percent of the documents have been filmed. Routine correspondence has not been filmed.



Established 1841.

C. H. Delamater

G. W. Robinson

1883-5-23

Wm. Delamater

**DELAMATER IRON WORKS**  
 C. H. DELAMATER & CO. PROPRIETORS.  
**BOILER MAKERS**  
**ENGINE BUILDERS AND FOUNDERS**  
 FOOT OF WEST 137<sup>TH</sup> ST  
 NORTH RIVER.

*New York* MAY 23, 1883 188

THOMAS A. EDISON ESQ.

65 FIFTH AVENUE,

NEW YORK CITY :--

DEAR SIR :

RECEIVED  
 MAY 24 1883  
 ANSWERED

FILE NO. .... 188

TWO YEARS AGO WE BUILT FROM PLANS OF CAPTAIN ERICSSON A STEAM ENGINE WHICH HAS BEEN RUNNING DURING THE PAST YEAR DRIVING THE ELECTRIC LIGHTS, THE ENGINE BEING CONNECTED DIRECT TO A DYNAMO AND MAKING ABOUT 900 REVOLUTIONS PER MINUTE. IT HAS WORKED SO WELL THAT CAPT. ERICSSON HAS THOUGHT BEST FOR US TO BUILD ANOTHER MACHINE, ADDING SUCH IMPROVEMENTS AS MAY HAVE SUGGESTED THEMSELVES BY THE USE OF THIS FIRST ONE. THE SECOND MACHINE IS NOW FINISHED AND RUNNING AND CAPT. ERICSSON, AS WELL AS OURSELVES, IS ANXIOUS TO HAVE THIS MACHINE DRIVE ONE OF YOUR DYNAMOS. WE INTEND TO PUT UP THIS MACHINE TO LIGHT A PORTION OF OUR OWN WORKS AND BELIEVE IT TO BE ADMIRABLY ADAPTED FOR THAT PURPOSE. WE THINK YOU WILL FEEL A VERY GREAT INTEREST IN IT WHEN YOU SEE IT RUN, THE REGULATION AND LUBRICATION BEING ABSOLUTELY PERFECT. WE

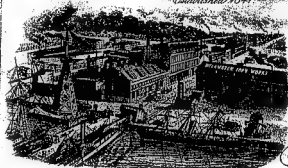
Please address ALL business communications to C. H. DELAMATER & CO.



Established 1841

C. H. Delamater

1883-05-23  
C. H. Delamater & Co. Proprietors



**DELAMATER IRON WORKS**  
C. H. DELAMATER & CO. PROPRIETORS.  
**BOILER MAKERS**  
**ENGINE BUILDERS AND FOUNDERS**  
FOOT OF WEST 13<sup>TH</sup> ST.  
NORTH RIVER.

*New York*

188

WRITE THIS LETTER, HOPING THAT YOU CAN NAME A TIME WHEN YOU WILL  
SEE THE MACHINE HERE OR THAT YOU WILL GRANT AN INTERVIEW AT YOUR  
OWN CONVENIENCE AT YOUR PLACE WITH OUR MR. REYNOLDS WHO WILL EX-  
PLAIN TO YOU WHAT IS REQUIRED IN ORDER TO ATTACH ONE OF YOUR MA-  
CHINES TO THIS ENGINE.

HOPING TO HEAR FROM YOU SOON, WE ARE

YOURS RESPECTFULLY,

C. H. DE LAMATER & CO.

Please address ALL business communications to C. H. DELAMATER & CO.

Western Electric Company,

New York.

1883-07-18

July 18/83.

Geo. A. Edison, Esq.  
60 Fifth Ave.  
New York  
What kind of instrument  
is it? - Allow us to  
call your attention to the  
fact that we have  
just received a sample  
of your dynamo-electric  
currents.

These instruments are  
considered by good judges  
to be the finest made.

We shall be glad to  
let you have a set on  
trial if you desire.

Yours truly,

Western Electric Co.

C. A. Brown

1883-08-18

Established 1837

CHARLES COOPER & CO  
MANUFACTURING  
CHEMISTS & IMPORTERS  
194 WORTH ST.  
WORKS AT NEWARK N.J.

Charles Cooper New York  
Jacob Weinhaus New York  
J.B. Stouss New York

New York Aug 18 1883

Mr. H. Edison  
Dear Sir

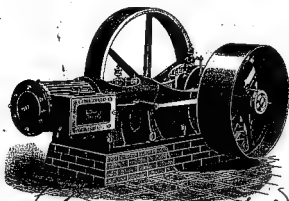
In reply to you  
of the 17th, we quote  
you Pure Sulphate  
Zinc in 10 to 18¢  
at 100 to 15¢

we remain

Respectfully

Chas Cooper  
Woodworth

Write for a sample for test  
purposes - we must have it  
perfectly free from iron. Especially  
E



W. H. NICHOLSON, PRES.

1883-10-12

F. H. BALL, TREAS.

BALL ENGINE COMPANY,

*Manufacturers of*  
Automatic Cut-Off  
ENGINES.

Recd, Pa. *Oct 12 4* 1883

OCT 15 1883

ANSWERED

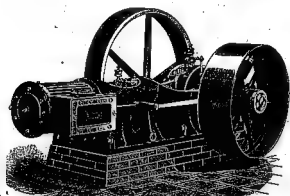
FILE NO. 10

*My A Edison*

*We should want to make long test of an 8 1/2 x 10*  
*near that size*  
*the sooner it works before*

*We have made several attempts to reach your Co but without success in the question of the superiority of our Engine for Electric lighting. We now state our case briefly. On the question of Regulation or as absolutely hold an Engine to speed under full changes of load as the world moves.*

*Our valve is far superior to any Piston valve which is the kind all single valve Automatic Engines use. We give the highest attainable Economy & an Engine capable of long continuous runs having the most improved system of lubrication. We have the Engine at the Boston fair, & if it*



W. H. NICHOLSON, Pres.

1883-10-12

F. H. BALL, Treas.

BALL ENGINE COMPANY,

MANUFACTURERS OF

Automatic Cut-Off  
ENGINES.

Bro, Pa., \_\_\_\_\_ 188

is possible for you to get better results  
for your lights by means of having  
an Engine such as we described -  
we will make the following proposition

If you will send a man there  
to investigate, if all we have  
stated is not correct you can  
draw on us for the expense -

Having today the most  
perfect Electric Engine we must  
have an arrangement with several  
of the Electric Cos as we already  
have with one - Can we hear  
from you

Respectfully Yours  
F. H. Ball  
W. H. Nicholson  
Pres.



1883-10-17

Chas. P. Oct 17 1883

Thos A Edison Esq  
65 Fifth Ave

N.Y. City

Dear Sir

We thank you for your prompt reply to our letter and beg to say that your suggestion is entirely satisfactory to us.

As soon as an engine can be spared we shall be glad to send you a 9x12 speeded to 300 revolutions for you to test at your works.

Our standard pulley for this engine is 40". Will this suit your requirements. If not please state what size mill. Please state also



1883-10-17

2

Chas. P.

1883

how long you would like to test the engine. You may expect the following results from our engine which shall be always guaranteed.

1st Chiefly an exactness of regulation that no other system of governing can possibly give

2nd In the matter of fuel economy as good results as any engine can give.

3rd An engine of very superior design & finish and extremely simple in construction as a result of which the engine is capable of long continuous run. As an evidence of

Ans Campbell

1883-10-17



Chris. Pol

188

the probability of our doing what we claim we refer you to the Boston Fair where the superior performance of our engine is admitted by all. Please notice the American machinist of this week which speaks of the results obtained by our engine at the fair.

We could give you very flattering testimonials but we refrain from doing so as we know you want the practical demonstration under your own supervision.

In considering the good points of our engine we hope you will not overlook

1883-10-17



Chris. Pol

188

the valves which has flat wearing surfaces taking up its own wear which is certainly a very much better valve than a piston valve particularly so when considering the question of long life of the engine. We shall be glad to hear from you at your earliest convenience.

Yours Truly  
Ball Engine Co

1873-10-17



SMITH, MYERS &amp; SCHINNER

MANUFACTURERS OF

STEAM ENGINES &amp; CIRCULAR SAW MILLS

SHAFTING, HANGERS, PULLEYS, COUPLINGS  
AND  
GENERAL MACHINERY.301, 303, 305 & 307  
WEST FRONT STREET

Cincinnati, Oct 17 1873.

In reply to yours of

Thos. A. Edison Esq.  
No 61 5th Avenue  
New York.

Sir:

We learn from Mr Stewart of the Ohio Company that you have signified your willingness, in case we bring an Engine to New York and allow you to test it and the Engine proved to your satisfaction that it is capable of driving an Electric Dynamo equally as well as an Engine manufactured by Mess Armington & Sons of Providence to give us orders for one hundred or more Engines.

We are confident that our Terrospin Engine will do this work and are perfectly willing and even anxious to make the trial. Would of course prefer it near home but would come to New York if our better arrangements can be made.

Would be pleased to have you draw up a contract to this effect and forward to us, let us have also all the data and also state the nature of the test given required & special points to be considered in fact let us understand clearly what is expected of us. We will then write you regarding the matter and can no doubt make arrangements that will be



1883-10-17  
Smith, Myers & Schrier

MANUFACTURERS OF

STEAM ENGINES & CIRCULAR SAW MILLS.

STARTING, HANGERS, PULLEYS & COUPLINGS  
AND  
GENERAL MACHINERY

312, 314, 316 & 318  
WEST FRONT STREET

Cincinnati

In reply to yours of

perfectly satisfactory to all concerned.  
A prompt reply is respectfully solicited.

Respectfully,

Smith, Myers & Schrier,  
Cincinnati.

As time is an element and as we have the Arringtons running nearly 2 years we would not give order for 100 or short trial out we will put up an engine at Gouck Street works & test the same 2 or 3 months & if satisfied buy a large lot of engines from them - they pay freight etc, & we buy the engine at the factory



14 1/2 x 18 50 to 20

2-60 48 700

12 60 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

Oct 17/13

Schmidt Moyer

Schneider

re an engine

to be tested

GENERAL MACHINES  
AND  
ENGINEERING  
CO.  
NEW YORK



# BECKER & SONS,

MANUFACTURERS OF

RECEIVED BALANCES AND WEIGHTS OF PRECISION,

OCT 31 1883

ASHTON RED

6 MURRAY STREET,

New York, Oct 31<sup>st</sup> 1883

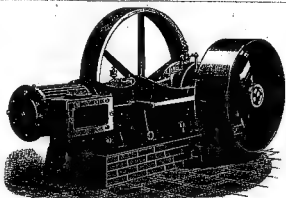
.....188.....

P.F.

Thomas A. Edison Esq

Dear Sir.

The capacity of  
Balance #7 is 100 Gramms. If you  
need a Balance to carry 300 Gramms  
we would recommend our #8 Balance.  
we enclose one of our lists so that you  
may choose for yourself. we remain  
Yours Very Respectfully  
Becker & Sons.



W. H. NICHOLSON, President

F. H. BALL, Treasurer

1883-11-06

**BALL ENGINE COMPANY,**  
MANUFACTURERS OF  
**Automatic Cut-Off Engines,**  
Embodying a new principle in which the  
**GOVERNOR WEIGHS THE LOAD.**

Thos. A. Edison Esq  
65 Fifth Avenue  
N.Y.

Dear Sir. In reply to your letter of the 24th inst. we would ask you whether after a long period of satisfaction that our engine have you any reason now in use we may hope for that you are so with you or whether you present patent of so preclude the probability a possibility of anything of the sort. You understand that we don't care to incur the expense of a test thereby to satisfy curiosity or to convince you of a fact of there is no probability of its resulting in business. Our own best letter we gave you an idea of what we expect to demonstrate to you. You speak of a 9x12 which size we do not build but would send you a 9x12. In regard to pulley you speak of a 56" pulley. We have no pattern of that size & have never had an order requiring it.

*Original letter to the Ball Engine Co. dated Nov 6th 1883. We understand from this that there is some question about patents & we are not sure you & his Co. are not bound to him in any way. We never use the Countershafting.*

We have 40" x 46" & would prefer to use one of these rather than make a new pattern for which we might have no further use after this test.

Could it not be arranged with counterbalance for the purpose of this test.

In regard to the expense of test we suppose you will conduct the test if we deliver the engine in your shop & set it up for you.

Are we right about this & if so will there be any unusual expense attending the placing of engine where you can use it.

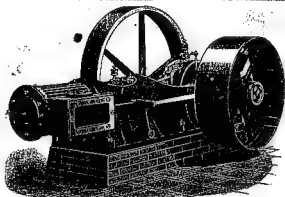
We are very desirous of giving you this demonstration if you want it. Having gone through similar tests on previous occasions we know just what the results will be & you may be sure your dynamo will make absolutely the same number of revolutions when doing its work as when running empty.

Awaiting your kind reply we are

Yours Very Truly

Ball Engine Co.

F. W. Ball to



W. H. NICHOLSON, President.

1883. 11. 09.

P. H. BALL, Treasurer.

BALL ENGINE COMPANY,  
MANUFACTURERS OF

Automatic Cut-Off Engines,

Embodying a new principle in which the

GOVERNOR WEIGHS THE LOAD.

Che, Pa., Nov 9<sup>th</sup> 1883

Mr. A. Edison

New York

515 Dear Sir

In reply to yours of the 4<sup>th</sup> inst. will say - We can give you the verbal statement of our patent lawyer in reference to the question do you infringe on Armstrong & Sons, & is your engine patent free - His answer is "We are patent free" but we will give you his written opinion soon, wherein he will go elaborately into the matter.

Our system of governing is entirely new. We have the only patents covering the principle. We will furnish this information as soon as need.

Respect Yours  
P. H. Ball

1883-11-22

BECKER & SONS,

MANUFACTURERS OF

BALANCES AND WEIGHTS OF PRECISION,

6 MURRAY STREET,

New York, Nov 22 - 1883

Thos. A. Edison Esq

Dear Sir.

The Balance #7  
a B. constructed as to weight on  
beam in the Beam is really be kind  
enough to inform us what its do  
with same. and oblige.

Yours Very Respectfully  
Becker & Sons

Send to Geo Grown  
Gorack  
tell Clark & Grown  
to test it & give their  
opinion if it is best to  
use them in future  
E

VALLEY IRON WORKS,  
Manufacturing Founders & Machinists,  
33-43 West Street,

WILLIAMSPORT, PENNA.

Nov 26<sup>th</sup>

1883

Mass Edison Electric Light Co.,  
Attentive

We enclose you herewith Photograph of our Small  
Engine. This we have designed with a view to Great Speed Economy.  
We have made a thorough test under strain of iron we can with  
perfect safety without the slightest perceptible jar run it to a  
speed of 1100 revolutions. We showed it in operation to several  
of the Edison Electric Lighting Co of this city. They are very much  
pleased with it especially it number one for the purpose. We  
consider it one of the most compact robust designed Engines  
now in the market. (we have not as yet placed these Engines  
in the market but purpose doing so very shortly) we have  
several 10x12 now under way. which will shortly be completed.  
we have concluded to do away with all belted work, making  
Engines as plain as possible. Cross Head has 4 1/2" both Top &  
Bottom. Guides are struck from complete circles making it  
impossible (should Engine get out of line) to injure any of the working  
parts. as Cross Head will immediately adjust itself allowing  
Kist Pin Boxes to do the same. we have not slighted  
it in any respect & claim we have as fine an Engine for

**HALLEY IRON WORKS,**  
Manufacturing Founders & Machinists,  
33-43 West Street,

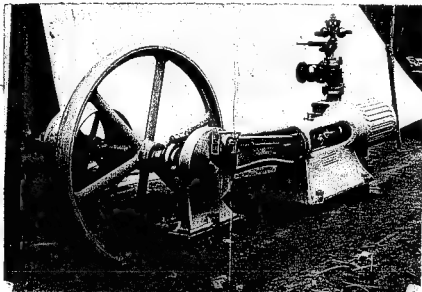
*Can't use this  
type of Engine  
has trouble  
going*

WILLIAMSPORT, PENNA.,

the purpose as there is anywhere manufactured, we should  
like to send you one of them on trial. if it proves satisfactory you  
to retain it. if not satisfactory it to be returned at our expense. we  
purpose manufacturing in Erie to suit the demand. we can offer  
you this Engine at \$450.00 less 30%. if you will allow us to send you  
on under these terms please give us length of shaft you require &  
whether you wish Pilot Steel on end of shaft. If these terms are  
not agreeable please suggest some as we desire you to try it. Kindly  
favor us with reply very much obliged

Very Respectfully yours  
Wm. C. Halley

*will call & see  
it when come to  
Wm. C. Halley*





Thomas A. Addison Esq

65 Fifth Avenue N.Y.C.

Sir, We like the pulley and will

order three when you are

able to supply them. I have  
a paper pulley placed on  
one of your machines for  
trial. The paper pulley is  
a new invention and  
where it has been tested  
has commanded the fullest  
indorsement by Mechanical  
Engineers. It holds the belt  
from slipping equal to the  
Rubber Covered pulley. It  
is lighter than the Cast  
iron pulley. And in the  
points of advantage it  
saves fully 25 percent  
of power over the ordi-  
nary Cast iron pulley.

1883-12-04

As I am about organizing  
a Company to manufacture  
the paper pulley on a large  
scale. Your statement as  
to the advantages the pulley  
possesses for selection of  
machinery would be of  
great benefit. Your Me-  
chanical Superintendent  
who has been using the  
pulley ought to be able  
to give the information  
which to base such opinion.  
I take the liberty of addressing  
you personally, as thinking  
getting your approval  
I am aiding in the organiza-  
tion of a Company at

OFFICE OF E. B. MARTINDALE,  
PATENTEE OF "THE AMERICAN PAPER PULLEY,"  
INDIANAPOLIS, IND.

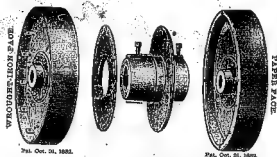
1883-12-04

this point for a plant of  
the Edison Electric Light.  
Hoping to hear from you  
soon as to the advantages  
of the Paper Pulley which  
you have had in use  
I remain  
Yours Truly  
E. B. Martindale

1893-12-04

**Martindale's**  
**PATENT PAPER PULLEYS,**

MANUFACTURED ONLY BY



**American Paper Pulley Co.**

114 and 116 S. Pennsylvania St.,

INDIANAPOLIS, IND.

DEALERS IN

**SHAFTING, HANGERS AND BELTING.**

[ENCLOSURE]

# PRICE-LIST OF PAPER PULLEYS.

*Bored, Turned and Balanced, with Set-Screws.*

## American Paper Pulley Co.

MANUFACTURERS OF

Paper Pulleys, Wooden Pulleys,

AND

Paper Disc Wrought-Iron Rim Pulleys,

Wood Disc Wrought-Iron Rim Pulleys,

AND

Friction Pulleys.

Our Pulleys are stronger, lighter and cheaper than Cast-Iron Pulleys and are infinitely superior and preferable to any Pulley manufactured.

Our product fully covered by Letters Patent in United States and Foreign Countries.

We guarantee our pulleys to meet all requirements.

Not more broken Pulleys to sell for scrap, or poorly balanced Pulleys to rack your line or counter shaft.

Bore of Pulley in inches	Diameter of Shaft in inches																	
	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
62.15	2.35	2.05	2.80	3.00	3.25	3.50	3.75	4.00	4.25	4.50								
72.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75								
82.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00								
92.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25								
102.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	
112.85	3.10	3.80	3.60	3.90	4.25	4.50	5.00	5.25	5.75	6.00	6.50							
123.00	3.25	3.50	4.00	4.25	4.50	5.00	5.25	5.50	5.80	6.25	6.50	7.00						
133.25	3.50	3.75	4.10	4.40	4.80	5.25	5.75	6.25	6.75	7.25	7.75							
143.50	3.50	4.00	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.75	9.25	9.75				
153.75	3.50	4.00	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.75	9.25	9.75				
164.00	4.45	4.85	5.20	5.60	6.05	6.55	7.05	7.55	8.05	8.55	9.05	9.55	10.05	10.55				
174.25	5.00	5.40	5.85	6.75	7.35	7.85	8.50	9.05	9.75	10.25	10.75	11.25	11.75	12.25				
184.50	5.25	5.75	6.50	7.00	7.50	8.00	8.75	9.25	10.00	10.75	11.50	12.25						
194.75	5.50	6.00	6.85	7.50	8.25	9.00	9.75	10.50	11.25	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	
205.00	5.75	6.25	7.00	7.75	8.50	9.25	10.00	10.75	11.50	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	
215.25	6.00	6.50	7.25	8.00	8.75	9.50	10.25	11.00	11.75	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	
225.50	6.25	6.75	7.50	8.25	9.00	9.75	10.50	11.25	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	
235.75	6.50	7.00	7.75	8.50	9.25	10.00	10.75	11.50	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	
246.00	6.75	7.25	8.00	8.75	9.50	10.25	11.00	11.75	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	
256.25	7.00	7.50	8.25	9.00	9.75	10.50	11.25	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	
266.50	7.25	7.75	8.50	9.25	10.00	10.75	11.50	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	
276.75	7.50	8.00	8.75	9.50	10.25	11.00	11.75	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	
287.00	8.00	8.50	9.25	10.00	10.75	11.50	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	
297.25	8.25	8.75	9.50	10.25	11.00	11.75	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	
307.50	8.50	9.00	9.75	10.50	11.25	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	
317.75	8.75	9.25	10.00	10.75	11.50	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	
328.00	9.00	9.50	10.25	11.00	11.75	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	
338.25	9.25	9.75	10.50	11.25	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	
348.50	9.50	10.00	10.75	11.50	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	
358.75	9.75	10.25	11.00	11.75	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	
369.00	10.00	10.50	11.25	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	
379.25	10.25	10.75	11.50	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	
389.50	10.50	11.00	11.75	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	
399.75	10.75	11.25	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	
409.00	11.00	11.50	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	
419.25	11.25	11.75	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	
429.50	11.50	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	
439.75	11.75	12.25	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	
449.00	12.00	12.50	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	
459.25	12.25	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	
469.50	12.50	13.00	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	
479.75	12.75	13.25	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	
489.00	13.00	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	
499.25	13.25	13.75	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	
509.50	13.50	14.00	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	
519.75	13.75	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	
529.00	14.00	14.50	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	25.75	
539.25	14.25	14.75	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	26.00	
549.50	14.50	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	26.25	
559.75	14.75	15.25	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	25.75	26.50	
569.00	15.00	15.50	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	26.00	26.75	
579.25	15.25	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	26.25	27.00	
589.50	15.50	16.00	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	25.75	26.50	27.25	
599.75	15.75	16.25	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	26.00	26.75	27.50	
609.00	16.00	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	26.25	27.00	27.75	
619.25	16.25	16.75	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	25.75	26.50	27.25	28.00	
629.50	16.50	17.00	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	26.00	26.75	27.50	28.25	
639.75	16.75	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	26.25	27.00	27.75	28.50	
649.00	17.00	17.50	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	25.75	26.50	27.25	28.00	28.75	
659.25	17.25	17.75	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	26.00	26.75	27.50	28.25	29.00	
669.50	17.50	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	26.25	27.00	27.75	28.50	29.25	
679.75	17.75	18.25	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	25.75	26.50	27.25	28.00	28.75	29.50	
689.00	18.00	18.50	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	26.00	26.75	27.50	28.25	29.00	29.75	
699.25	18.25	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	26.25	27.00	27.75	28.50	29.25	30.00	
709.50	18.50	19.00	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	25.75	26.50	27.25	28.00	28.75	29.50	30.25	
719.75	18.75	19.25	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	26.00	26.75	27.50	28.25	29.00	29.75	30.50	
729.00	19.00	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	26.25	27.00	27.75	28.50	29.25	30.00	30.75	
739.25	19.25	19.75	20.50	21.25	22.00	22.75	23.50	24.25	25.00	25.75	26.50	27.25	28.00	28.75	29.50	30.25	31.00	
749.50	19.50	20.00	20.75	21.50	22.25	23.00	23.75	24.50	25.25	26.00								

**WE CLAIM THE FOLLOWING ADVANTAGES  
OVER ANY OTHER PULLEYS.**

**THEY ARE STRONGER** and consequently more durable:

1. In the absence of shrinkage strains, to which cast pulleys are subject.
2. The discs or centers being solid, there are no weak or yielding spaces as in a pulley having arms supporting the rims.
3. The rims are not fragile and easily broken as in cast iron.

**THEY ARE LIGHTER** one-third to one-half, than other pulleys, and can be run with safety at higher speed, transmitting the same power with lighter shafting and hangers.

**THEY ARE CHEAPER.** From the saving in cost of Belts, Shafting and Hangers; there is no danger of breakage in handling, there being a direct loss in this way in Cast Iron Pulleys. There is, with a Cast Iron Pulley, a direct loss in the transmission of power caused by the slipping of belts. This is partially overcome by the use of the Wrought Iron Rim Pulley, and entirely overcome by the use of the Paper Face Pulley, the belt adhering to wrought iron, paper or wood much more than to cast iron.

*Our Pulleys are designed for any and all classes of work, but especially recommend themselves to mill furnishers, millers, wood workers and machinists. They are not affected by heat or moisture, but should not be used for out door work, where exposed to the weather, unless well painted at least once a year.*

1883-12-08  
BECKER & SONS,

MANUFACTURERS OF

BALANCES AND WEIGHTS OF PRECISION,

6 MURRAY STREET,

New York, Dec 8 <sup>th</sup> 1883

RECEIVED  
DEC 8 1883  
ANSWERED

Dec 8/83  
FILE NO. ....

T. A. Edison Esq

Dear Sir,

It will cost Five Dollars Extra for the #7 Balance and Eight Dollars Extra for the #8 Balance to make them the same as the one you have in Brook St. we remain

Yours Truly Respectfully  
Becker & Sons

Accepted Dec 8/83  
[Signature]

1883-12-10

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY**  
**COTTON AND MOHAIR YARNS, WOOL ETC.**

 KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE  
 PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOYD, AND TAYLOR, WOODSWORTH & CO.

 SOLE AGENTS  
 FOR  
 PRINCE, SMITH & SON,  
 WAREHOUSES & FACTORIES,  
 TAYLOR, WOODSWORTH & CO.,  
 FORT COCKE & CO.,  
 T. R. HARDING & SON,  
 OIL & CHEMISTS,  
 J. WHITE & SONS,  
 SPINNING LOOMS,  
 BAERLEIN & CO.,  
 RIGGING MACHINES,  
 SAHL, REUBENSTON,  
 SPINNING MACHINES,  
 DOBSON & BARLOW,  
 LUTHER MACHINERY.

 SOLE AGENTS  
 FOR  
 O. HARTENLEY & SON,  
 FANCY LOOMS,  
 ELKAMAH HOTEL & SONS,  
 STEAM & FIBRE MACHINERY,  
 JAMES YATES & SONS,  
 CARD CUSHING,  
 J. JEFFERSON & SONS,  
 WOOL WALKERS,  
 TORLOFF,  
 FRENCH BIKING,  
 J. PARKERSON & SONS,  
 TRAMPS,  
 W. E. SMITH & SONS,  
 CARPET LOOMS.

Boston, Mass. December 10, your 1883.

 Mr. Thomas A. Edison,  
 Construction Dept.,

New York,

Dear Sir:--

In reply to your esteemed favor of 8th inst. we could supply you with the Harding's speed Indicators in quantity at \$29 net, (our price to sell them single is much higher). We could also supply them to you nickel plated, which would cost \$2. more.

We regret that we have no illustrated catalogue, as we should be very happy to forward one to you.

We shall be most happy to receive your orders, which we can forward by cable to insure a speedy delivery.

Yours respectfully,

*Stoddard, Lovering & Co.*
*Stoddard, Lovering & Co.*

*Take here in your  
 place to order  
 better order one  
 sent to 65 some  
 can see if it is  
 right and E*

1883-12-13

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY  
COTTON AND MOHAIR YARNS, WOOL ETC.**

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER, AND DUPLICATE  
PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOYD, and TAYLOR, WORDSWORTH & CO.

SOLE AGENTS  
FOR  
PRINCE, SMITH & SON,  
WINDING MACHINES, SPINNING,  
TAYLOR, WORDSWORTH & CO.,  
FINEST COTTONS ETC.,  
T. R. BARNES & SONS,  
OILS & COMBING PINS,  
J. WHITE & SONS,  
APRON LEATHER,  
BARTLEIN & CO.,  
SILK MACHINES,  
GAIL, NEWBOTTON,  
SPINDLE BANDS,  
ODDSON & BARLOW,  
WATER MACHINES.

SOLE AGENTS  
FOR  
S. HATFIELD & SONS,  
FANCY LUCKS,  
ELKMAN, WYLE & SONS,  
STEERING & FRICTION MACHINES,  
JAMES VATES & SONS,  
CARD CLOTHS,  
J. JEFFERSON & BROS.,  
WOOL, WASHES,  
TUBS, ETC.,  
J. PARKINER & SONS,  
TENTILES,  
W. SMITH & BROS.,  
CARPET LOOMS.

*Boston, Mass.* December 13, 1883

Mr. Thomas A. Edison, Constn. Dept.,

New York,

Dear Sir:—

We have your favor of yesterday, and regret that we have only a few days ago parted with the last Speed Indicators we had in stock, and it may be a few weeks before we can have a fresh supply.

Just 12 months ago we sent six of these machines to the "Edison Light Company", and you may be able to see one or the other in New York.

Yours respectfully,

*Stoddard, Lovering & Co.*

*Buyer  
will have to make them - 9*



1883-12-14

102 John St.  
New York, Dec. 14<sup>th</sup> 1883.

Mrs. Thos. A. Edison,  
Construction Department, 65-5<sup>th</sup> Ave,  
Dear Sir,

Your favor of the 12<sup>th</sup> inst. is received.  
I have already an order given me personally by Mr.  
Edison for 500 lbs Sulphate Zinc to be free from Iron.  
Do I understand that you would like a sample  
before the lot is made? Kindly explain & oblige -  
Yours truly

Chas. T. White

Jr. Mr. W.

You delayed so we ordered a  
ton from Powers & Wrightman.  
However send sample & 500  
lbs to T. A. Edison Care Bayman  
& Co. ave B + 17<sup>th</sup> St

1883-12-19

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY**  
COTTON AND MOHAIR YARNS, WOOL ETC.

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE  
PARTS FOR MACHINERY FROM PRINCE SMITH & SON, J. & T. BOYD, AND TAYLOR, WORDSWORTH & CO.

SOLE AGENTS  
FOR  
PRINCE SMITH & SON,  
NEWCASTLE UPON TYNE  
TAYLOR, WORDSWORTH & CO.,  
LONDON  
J. & T. BOYD,  
T. R. HARRISON & SONS,  
BIRMINGHAM  
J. WHITE & SONS,  
APRIL LEATHER,  
BARKER & SONS,  
COTTON MACHINERY,  
BAHL, ROWBOTTOM,  
SPINDLE BANDS,  
GOSBON & BARLOW,  
COTTON MACHINERY.

SOLE AGENTS  
FOR  
G. HATTERLEY & SONS,  
LONDON  
ELIZABETH HOLT & SONS,  
LONDON  
JAMES VATER & SONS,  
LONDON  
CARR COCHRAN,  
J. JEFFERSON & SONS,  
LONDON  
WELLS WARRER,  
LONDON  
TOLLOTH,  
FRENCH BROS.,  
J. PARKERSON,  
LONDON  
W. SMITH & SONS,  
LONDON

*Boston Herald* December 19, 1883

Mr. Thomas A. Edison,

Construction Dept.,

Dear Sir:--

We just received your telegram inquiring time at which we could deliver Indicators.

As we could only guess at it, we have preferred to inquire by cable, how soon we could count upon the shipment of it, and will give you our answer to-morrow morning by wire. Should they be in stock, they can probably be delivered in three weeks, otherwise, it may take four to five weeks.

Yours respectfully,

*Stoddard, Lovering & Co.*

*Her  
Say they can  
deliver in about  
four weeks so  
I gave them  
order - Gate*

1883-12-21

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY  
COTTON AND MOHAIR YARNS, WOOL ETC.**

SOLE AGENTS  
FOR  
PRINCE, SMITH & SON,  
WENTFORD, WINDHAM & CO.,  
TAYLOR, WOODBURN & CO.,  
WOLFE, CHASE & CO.,  
T. R. HARDING & SONS,  
DELL & COMPANY, PHILADELPHIA,  
J. WHITE & SONS,  
APRIL LEATHER,  
BAERLEIN & CO.,  
BIRD & COMPANY,  
SAML. BOWEN & SONS,  
SPINNING MACHINES.

SOLE AGENTS  
FOR  
G. HATTERLEY & SONS,  
FRANCE & SONS,  
ELKHART & SONS,  
BROWN & FARMINGHAM & SONS,  
JAMES VATER & SONS,  
CARP & SONS,  
J. JEFFERSON & SONS,  
WOLFE, CHASE & CO.,  
T. R. HARDING & SONS,  
DELL & COMPANY, PHILADELPHIA,  
J. WHITE & SONS,  
APRIL LEATHER,

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE  
PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOND, AND TAYLOR, WOODBURN & CO.

*Boston, Mass.* December 21, 1883

Mr. Thomas A. Edison,

New York, N. Y.,

Dear Sir:—

We received this morning a cable message from our friends, saying that they could ship 24 Speed Indicators within a month, of which we informed you by wire, and received since your message asking us to order them, which we have done to-night by cable.

We remain, dear sir,

Yours respectfully,

*Stoddard, Lovering & Co.*



THE

(1883)

WOOD AND RICHMOND REFRIGERATION COMPANY,  
MAKERS OF  
REFRIGERATING AND ICE MACHINERY,

ALSO

CONDENSE WATER-COOLERS (Saving 90 per cent. of Water.)



OFFICES, 176 BROADWAY.

Write & say that so far we  
have not been <sup>1888</sup> ~~troubled~~ with  
priming but expect to make several  
installations where we shall be  
65 Fifth Ave trial &  
Hawley. will give it a trial &

Shoulder to Campbell E  
We enclose your sketch of a  
simple apparatus <sup>sketch in book &</sup> which we patented  
for separating gas from liquid. The  
<sup>Keep the address with notes</sup> same attached to delivery pipe close  
up to boiler forms an excellent prevention  
of priming. Experiments have shown  
that priming is almost entirely due  
to the sweeping along by the steam  
of a film of water adhering to the sides  
of the pipe by capillary attraction.

The inverted cone secured to  
the upper part of the apparatus by  
means of a ferrule is of copper or  
steel the mouth being ground to a  
knife edge. The film of water is small

to pass his edge and drop back  
into the boiler. If you have any  
trouble from prunning we should be  
glad to arrange for a trial of the  
apparatus being confident that  
it would prove an entire success.

Yours respectfully  
Woot and Richmond

James C. Woot & Richmond

RECEIVED  
JAN 10 1891  
U.S. DEPT. OF AGRICULTURE  
WASHINGTON

**1833. Edison, T.A. - Unsolicited Inquiries (D-83-018) [not filmed]**

This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for other information about his inventions.

**1883. Edison, T.A. - Visitors (D-83-019) [not filmed]**

This folder contains routine letters of introduction and requests to visit Edison. Letters that received a significant response by Edison, or that were written by individuals associated with Edison, are filed in their appropriate subject folders.



## **PUBLICATION AND MICROFILM COPYING RESTRICTIONS**

**Reel duplication of the whole or of any part of this film is prohibited. In lieu of transcripts, however, enlarged photocopies of selected items contained on these reels may be made in order to facilitate research.**

## **A Note on the Sources**

**The pages which have been  
filmed are the best copies  
available. Every technical  
effort possible has been  
made to ensure legibility.**

65

**END**

## FINANCIAL CONTRIBUTORS

### PRIVATE FOUNDATIONS

Alfred P. Sloan Foundation  
Charles Edison Fund  
The Hyde and Watson Foundation  
Geraldine R. Dodge Foundation

### PUBLIC FOUNDATIONS

National Science Foundation  
National Endowment for the Humanities

### PRIVATE CORPORATIONS AND INDIVIDUALS

Alabama Power Company  
Amerazda Hess Corporation  
AT&T  
Atlantic Electric  
Association of Edison Illuminating  
Companies  
Battelle Memorial Institute Foundation  
The Boston Edison Foundation  
Cabot Corporation Foundation  
Carolina Power and Light Company  
Consolidated Edison Company of  
New York, Inc.  
Consumers Power Company  
Corning Glass Works Foundation  
Duke Power Company  
Exxon Corporation  
Florida Power & Light Company  
General Electric Foundation  
Gould Inc. Foundation  
Gulf States Utilities Company  
Idaho Power Company  
International Brotherhood of Electrical  
Workers  
Iowa Power and Light Company

Mr. and Mrs. Stanley H. Katz  
Matsushita Electric Industrial Co., Ltd.  
McGraw-Edison Company  
Middle South Services, Inc.  
Minnesota Power  
New Jersey Bell Telephone Company  
New York State Electric & Gas  
Corporation  
North American Phillips Corporation  
Philadelphia Electric Company  
Phillips International B.V.  
Public Service Electric and Gas  
Company  
RCA Corporation  
Robert Bosch GmbH  
San Diego Gas & Electric  
Savannah Electric and Power Company  
Scherling Plough Foundation  
Texas Utilities Company  
Thomson-Brandt  
Transamerica Delaval Inc.  
Westinghouse Educational Foundation  
Wisconsin Public Service  
Corporation

## BOARD OF SPONSORS

Rutgers, The State University of  
New Jersey

Edward J. Bloustein

T. Alexander Pond

Tilden G. Edelstein

John Gillis

New Jersey Historical Commission

Bernard Bush

Howard L. Green

National Park Service, Edison

National Historic Site

Roy W. Weaver

Edward J. Pershey

Smithsonian Institution

Bernard Finn

Arthur P. Molella

## EDITORIAL ADVISORY BOARD

James Brittain, Georgia Institute of Technology

Alfred D. Chandler, Jr., Harvard University

Neil Harris, University of Chicago

Thomas Parke Hughes, University of Pennsylvania

Arthur Link, Princeton University

Nathan Reingold, Smithsonian Institution

Robert B. Schofield, Iowa State University

## CORPORATE ASSOCIATES

William C. Hittinger (chairman), RCA Corporation

Edward J. Bloustein, Rutgers, The State University of N.J.

Cees Bruynes, North American Philips Corporation

Paul J. Christiansen, Charles Edison Fund

Philip F. Dietz, Westinghouse Electric Corporation

Roland W. Schmitt, General Electric Corporation

Harold W. Sonn, Public Service Electric and Gas Company

Morris Tanenbaum, AT&T

**THOMAS A. EDISON PAPERS**

**Reese V. Jenkins**  
Director and Editor

**Thomas E. Jeffrey**  
Associate Director and Microfilm Editor

**Assistant Editors**  
**Paul B. Israel**  
**Robert A. Rosenberg**  
**Kelth A. Nier**  
**Andrew Butrica**

**Assistant to the Director**  
**Helen Endick**

**Leonard DeGraaf**  
**Alan Stein**  
**Jacquelyn Miller**

**Research Associates**  
**Douglas G. Tarr**  
**Mary Ann Helleigel**  
**David W. Hutchings**

**Secretary**  
**Grace Kurkowski**

**Student Assistants**

**Joseph P. Sullivan**  
**Karen Kozak**  
**Granville Miller**

**Thomas A. Edison Papers**  
at  
**Rutgers, The State University**  
endorsed by  
**National Historical Publications and Records Commission**  
18 June 1981

Copyright © 1987 by Rutgers, The State University

All rights reserved. No part of this publication including any portion of the guide and index or of the microfilm may be reproduced, stored in a retrieval system, or transmitted in any form by any means—graphic, electronic, mechanical, or chemical, including photocopying, recording or taping, or information storage and retrieval systems—without written permission of Rutgers, The State University, New Brunswick, New Jersey.

The original documents in this edition are from the archive at the Edison National Historic Site at West Orange, New Jersey.



# Thomas A Edison Papers

*A SELECTIVE MICROFILM EDITION*

*PART II  
(1879-1886)*

Thomas E. Jeffrey  
Microfilm Editor and Associate Director

Paul B. Israel  
Assistant Editor

Mary Ann Helfrigel  
David W. Hutchings

Editorial Associates

Douglas G. Tarr  
Robert A. Rosenberg

Leonard DeGraaf  
Joseph P. Sullivan  
Alan Stein  
Karen Kozak

John Deasey  
Barbara B. Tomblin  
Jacquelyn Miller  
Maria Antonakakis

Student Assistants

Keith A. Nier  
Assistant Editor

Reese V. Jenkins  
Director and Editor

Sponsors

Rutgers, The State University of New Jersey  
National Park Service, Edison National Historic Site  
New Jersey Historical Commission  
Smithsonian Institution

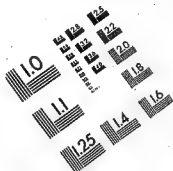
University Publications of America  
Frederick, Maryland  
1987

Edison signature used with permission of McGraw-Hill Company.



Association for  
Information and Image  
Management

MS303-1980



Centimeter



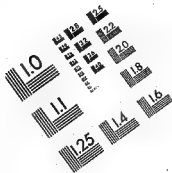
Inches





Association for  
Information and Image  
Management

MS303-1980



Centimeter



Inches



# Thomas A Edison Papers

## A SELECTIVE MICROFILM EDITION

### PART II (1879-1886)

Thomas E. Jeffrey  
Microfilm Editor and Associate Director

Paul B. Israel  
Assistant Editor

Mary Ann Hellrigel  
David W. Hutchings

Douglas G. Tarr  
Robert A. Rosenberg

Editorial Associates

Leonard DeGraaf  
Joseph P. Sullivan  
Alan Stein  
Karen Kozak

John Deasey  
Barbara B. Tomblin  
Jacquelyn Miller  
Maria Antonakakis

Student Assistants

Keith A. Nier  
Assistant Editor

Reese V. Jenkins  
Director and Editor

#### Sponsors

Rutgers, The State University of New Jersey  
National Park Service, Edison National Historic Site  
New Jersey Historical Commission  
Smithsonian Institution

University Publications of America  
Frederick, Maryland  
1987

**Thomas A. Edison Papers  
at  
Rutgers, The State University  
endorsed by  
National Historical Publications and Records Commission  
18 June 1981**

Copyright © 1987 by Rutgers, The State University

All rights reserved. No part of this publication including any portion of the guide and index or of the microfilm may be reproduced, stored in a retrieval system, or transmitted in any form by any means—graphic, electronic, mechanical, or chemical, including photocopying, recording or taping, or information storage and retrieval systems—without written permission of Rutgers, The State University, New Brunswick, New Jersey.

The original documents in this edition are from the archive at the Edison National Historic Site at West Orange, New Jersey.

**THOMAS A. EDISON PAPERS**

**Reese V. Jenkins**  
Director and Editor

**Thomas E. Jeffrey**  
Associate Director and Microfilm Editor

**Assistant Editors**

**Paul B. Israel**  
**Robert A. Rosenberg**  
**Keith A. Nier**  
**Andrew Butrica**

**Research Associates**

**Douglas G. Tarr**  
**Mary Ann Hellrigel**  
**David W. Hutchings**

**Assistant to the Director**  
**Helen Endick**

**Secretary**  
**Grace Kurkowski**

**Student Assistants**

**Leonard DeGraaf**  
**Alan Stein**  
**Jacquelyn Miller**

**Joseph P. Sullivan**  
**Karen Kozak**  
**Granville Miller**

## BOARD OF SPONSORS

Rutgers, The State University of  
New Jersey  
Edward J. Bloustein  
T. Alexander Pond  
Tilden G. Edelstein  
John Gillis  
New Jersey Historical Commission  
Bernard Bush  
Howard L. Green

National Park Service, Edison  
National Historic Site  
Roy W. Weaver  
Edward J. Pershey  
Smithsonian Institution  
Bernard Finn  
Arthur P. Motella

## EDITORIAL ADVISORY BOARD

James Brittain, Georgia Institute of Technology  
Alfred D. Chandler, Jr., Harvard University  
Neil Harris, University of Chicago  
Thomas Parke Hughes, University of Pennsylvania  
Arthur Link, Princeton University  
Nathan Reingold, Smithsonian Institution  
Robert E. Schofield, Iowa State University

## CORPORATE ASSOCIATES

William C. Hittinger (chairman), RCA Corporation  
Edward J. Bloustein, Rutgers, The State University of N.J.  
Cees Bruynes, North American Phillips Corporation  
Paul J. Christiansen, Charles Edison Fund  
Philip F. Dietz, Westinghouse Electric Corporation  
Roland W. Schmitt, General Electric Corporation  
Harold W. Sonn, Public Service Electric and Gas Company  
Morris Tanenbaum, AT&T

## FINANCIAL CONTRIBUTORS

### PRIVATE FOUNDATIONS

Alfred P. Sloan Foundation  
Charles Edison Fund  
The Hyde and Watson Foundation  
Geraldine R. Dodge Foundation

### PUBLIC FOUNDATIONS

National Science Foundation  
National Endowment for the Humanities

### PRIVATE CORPORATIONS AND INDIVIDUALS

Alabama Power Company  
Amerasia Hess Corporation  
AT&T  
Atlantic Electric  
Association of Edison Illuminating  
Companies  
Battelle Memorial Institute Foundation  
The Boston Edison Foundation  
Cabot Corporation Foundation  
Carolina Power and Light Company  
Consolidated Edison Company of  
New York, Inc.  
Consumers Power Company  
Corning Glass Works Foundation  
Duke Power Company  
Exxon Corporation  
Florida Power & Light Company  
General Electric Foundation  
Gould Inc. Foundation  
Gulf States Utilities Company  
Idaho Power Company  
International Brotherhood of Electrical  
Workers  
Iowa Power and Light Company

Mr. and Mrs. Stanley H. Katz  
Mitsubishi Electric Industrial Co., Ltd.  
McGraw-Edison Company  
Middle South Services, Inc.  
Minnesota Power  
New Jersey Bell Telephone Company  
New York State Electric & Gas  
Corporation  
North American Philips Corporation  
Philadelphia Electric Company  
Philips International B.V.  
Public Service Electric and Gas  
Company  
RCA Corporation  
Robert Bosch GmbH  
San Diego Gas & Electric  
Savannah Electric and Power Company  
Schering Plough Foundation  
Texas Utilities Company  
Thomson-Brandt  
Transamerica Delaval Inc.  
Westinghouse Educational Foundation  
Wisconsin Public Service  
Corporation



**START**

65

## **A Note on the Sources**

**The pages which have been filmed are the best copies available. Every technical effort possible has been made to ensure legibility.**

## **PUBLICATION AND MICROFILM COPYING RESTRICTIONS**

**Reel duplication of the whole or of any part of this film is prohibited. In lieu of transcripts, however, enlarged photocopies of selected items contained on these reels may be made in order to facilitate research.**

**THOMAS A. EDISON PAPERS**  
**A SELECTIVE MICROFILM EDITION**  
**PART II**  
**(1879-1886)**

**REEL 65**

**DOCUMENT FILE SERIES (DOC-25)**  
**D-83-016 [continued] through D-83-019**  
**("Edison, T.A. - Outgoing Correspondence"**  
**through "Edison, T.A. - Visitors")**

**D-83-016 Edison, T.A. - Outgoing Correspondence**

**CONTINUED FROM PRECEDING REEL**

1883-09-01

September 1st. 3

Major Flood Pape, General Manager,

Edison's Indian & Colonial Electric Co.

London, E. C. England.

Dear Sir:-

I have to give you below prices for machines, which we are now manufacturing:-

100 Light Machine.....\$ 400

400 Light Machine.....1,500

We are getting out designs for a 35 light machine, which will cost about \$175.; a 50 light machine which will be sold at about \$275.; We are also designing a 200 and 300 light machine, but cannot state what the price will be, until we have got a little further along in our work. Of course the only prices which you can look upon as absolute are those for the 100 and 400 light machines. In the course of a week or so, I can doubtless give you prices of machines of other denominations. All our prices are quoted F. O. B. in New York, but should any extra packing be required for long sea voyages, we shall be obliged to charge you for it. In shipping to England and the Continent, we are in the habit of using only our ordinary packing, but I presume if we have

1883-09-01

2

to ship to Australia for you, especially if we have to ship by Peabody's cutters, we shall have to use extra packing.

I also beg to hand you herewith price list of the Electric Tube Company for tubing on three wire system. These prices are subject to variations in the price of iron piping and of copper

I will send you a price list for lamps by Saturday's mail. I have been unable to get this out, owing to the absence of Mr. Upton, the Manager of the Lamp Factory.

I understood from you when you were here, that you had obtained from Bergmann & Co. their prices.

Very truly yours,

Enclosure.



1883-09-03

Sept, 3rd,

3

Charles Batchelor, Esq.,

Paris, France,

My Dear Batchelor:-

I find that I did not answer your letter of the 24th, June, asking me to explain how it was that there was a cross on the mains, in the down town district which the safety catches did not take care of, and which was only got rid of by putting on engine after engine until a piece of tube was burnt right off.

You will remember that the safety catches were only put on one pole of the system. In the first case they are rectified in the inside wire work by using a double safety catch, but the underground system was still left with only one side, consequently, when the grounds appeared the unprotected side of the circuit a short circuit was inevitable. Do you understand?

I am very poor on electrical descriptions, and more especially when it refers to a subject that I do not really conversant with.

I enclose you herewith copies of two sketches drawn by Edison, the original of which I have sent to Lieb, Milan. This will show you exactly what we use at the central station as an ampere recorder.. It is attached to the omnibus main in the sta-

Yours

1883-09-03

2

tion. Bradley carefully recorded the movements of the needle and compared these with the steam cards taken at the same time and then arrived at the exact number of lamps indicated as being on by the movements of the needle. He then prepared a scale, and attached it to the recorder, so that when a deflection of the needle takes place it will point out exactly the number of lamps burning on the system at that moment. The thing works very well indeed, and it is very interesting to watch its movements. If it happens to be a showery day, and a cloud suddenly comes up, the number of lights put in within a few moments is very large, as is shown by the deflection of the needle.

Very truly yours,

Enclosure.

1883-09-03

Sept. 3rd.

3

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We have again gone into the matter of a central station  
lot at Bellefonte.

Lot 40 x 130, price \$430, on Lamb street, is the one best  
suited for our purpose.

Very truly yours,

1883-9-03

September Ord.

3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I have not yet received anything from you stating  
whether you can and how soon you can ship six <sup>1</sup> 5 1/2 x 10 engines.  
All that we have is to the effect that you can ship three weeks  
from the receipt of order. I am waiting to cable to London on  
this point, and would urge you to let me have the answer immedi-  
ately by wire.

Very truly yours,

1573-09-03

Sept. 3rd, 1868.

Charles W. Westervelt, Esq.

120 Third Avenue, City.

Dear Sir:-

Referring to your favor of the 30th. ulto., I think you are in error in stating that I charged you with being dishonest.

I had information which led me to believe that something of very peculiar character had taken place with relation to the pay-rolls at Cooper Street, and my informant connected your name with it.

I am glad to hear, however, that you are perfectly innocent, and that if anything wrong occurred in relation to the above matter, you had no connection whatever with it.

Very truly yours,

1883-09-03

Sept. 3rd. 1883

A. Stuart, Esq. Mecty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

Referring to your letter of the 20th. ult., I should like to have pointed out where we make 100 per cent on the items in the liquid estimate. I think there must be some error as to this matter, as our figures were all put at the lowest possible point to enable us to get our "square".

Very truly yours,

1883-09-03

Sept. 3rd. 8

E. W. Wilbur, Esq.

Worcester, Mass.

Dear Sir:-

Your various letters to hand.

Will you please ascertain at what time the library at  
Ashburn Hall, at Worcester, lights up?

In future we shall be glad, whenever possible, if you  
will give us the time of the lighting of all public <sup>buildings</sup> ~~buildings~~,  
Halls, libraries &c..

I am unable to tell you exactly where you will go to after  
after you have canvassed <sup>Southbridge</sup> ~~Southbridge~~, but will let you know in the  
course of a day or so.

Very truly yours,

1883-09-03

September 9

J. W. Gorrell, Esq.

140 Nassau Street, City.

Dear Sir:-

Referring to your favor of the 31st, I have heard from  
Mr. Conkling since you saw him, and my letter to you was in con-  
sequence of a communication from him stating that he would act for  
me.

Very truly yours,



1883-09-03

Sept. 3rd. 3

Spencer Jordan, Esq.

P. O. Box, Mill,

Boston, Mass.

Dear Sir:-

I send you by this Mail, under separate cover, map of Worcester with red circle marked thereon.

Please have the price of lots obtained, that are for sale within the area marked, and send same to us, together with the map sent herewith.

We want the lots marked distinctly on the map, and shall be glad to have full information as to the sizes of each lot, the price of same, the nature of the soil and whether there are any buildings on the lots, and if so, the character of same and size.

We are waiting for the location of central stations at North Adams, and Pittsfield. Please let us have these as soon as possible.

Very truly yours,

1883-09-03

Sept. 3rd,

3

Major Flood Page, Gen'l. Manager,

Edison's Indian & Colonial Electric Co.

London, E. C. England.

Dear Sir:-

You asked for a statement, when you were here, of the number of Armstrong & Sims engines used by us.

I enclose you a list which gives you the engines shipped up to July, 1883. We are ordering these engines right along, so that this list, up to this date, is incomplete.

Very truly yours,

1875-09-03

September 3rd.

3

George S. Judd, Esq.

San Francisco, Cal.

Dear Sir:-

I find that your letter of the 30th July has been mislaid, hence the delay in replying to same.

I am indebted to you for the Post Office Order for \$5. I presumed that you had forgotten about the matter, and know that I would hear from you as soon as it occurred to you.

I enclose you herewith a memorandum prepared by Mr. Edison as to canvassing. If it does not give you all the information you desire in relation to this matter, please notify me as to what further you would like us to explain, and I will answer you promptly.

Very truly yours,

1883 09 03

Sept. 3rd.

3

P. D. Myer, Esq.

St. James Hotel,

Springfield, Ohio.

Dear Sir:-

In future please give, if possible, the time of lighting  
of all public halls, libraries &c., as this information will be  
very useful to us.

Very truly yours,

1883 09 03

September 3rd.

3

Edison Lamp Co.

Harrison, N. J.

Dear Sirs:-

Referring to your Mr. Wilmer's letter of the 30th. ult.,

I think it would be advisable to stick to our  
fibres and try  
and work up the life.

Very truly yours,

1873-09-03

Sept. 3rd.

Charles T. Hughes, Esq.

J. S. Hotel,

Newburgh, N. Y.

Dear Sir:-

I send you by this mail map of Newburgh with two circles thereon, and shall be glad if you will let us have a memorandum of the lots for sale within that area, giving the size and price of each lot and the nature of the soil, and whether there are any buildings on the lots, and if so the character and size of same.

It would be preferable to have the central station inside of the circle AA and if not inside of the circle BA.

In sending the above information, please return the map with the lots marked distinctly thereon.

Very truly yours,

Sunbury

1883-09-03

Sept. 3rd.

W. S. Andrews, Esq.

National Hotel,

Shamokin, Penna.

Dear Sir:-

If the Sunbury engineer should get sick, could his brother run the station?

Do you think that the engineer and his brother could answer the questions with relation to the engineer and motor work, which Mr. Edison sent you and which you answered?

Can you give me any information of the total number of lights connected at Sunbury?

I have telegraphed this morning to Mr. Marr asking him to send Hollis the wireman, who is new at Sunbury, to report to you at Shamokin. This man is supposed to teach the permanent local man at Shamokin, but pending Mr. Edison's arrival there, I do not want any arrangements made with a local man, as Mr. Edison wishes to choose one himself. If Mr. Mauty desires some houses wired, you had better ask him to engage such a man as Hollis would wish to assist him, say a local carpenter. This engagement should not be of a permanent character, but only by the day. I want you to see that Hollis does his work well and economically, and also desire that you should look up some jobbing carpenters in Shamokin, to

1583-09-03

2

that when Mr. Edison goes there, he will have little difficulty in picking out the man he wants.

On Monday I shall send Mr. Leonard to take the place of Mr. Conant, as I want Conant to go to Brockton Tuesday night.

Have written Herppmann about the switches.

Very truly yours,

1873-09-03

Sept. 3rd.

3

J. R. Campbell, Esq.

Bellefonte, Penna.

Dear Sir:-

Referring to your telegram of yesterday's date, I beg to send you herewith another map of Bellefonte.

The central station we have chosen is on Lamb Street, lot 40 x 120.

You will have to get a permit to run our feeders from the back of the lot to the red lines, and the course our feeders will take is indicated by the white lines on the map.

Please see if you can get this permit, and return the map to us at the earliest possible moment.

We will advise you by telegraph where to go after you get through at Bellefonte.

You will notice attached to the maps sent you some remarks by Mr. Spangue, which will explain to you what permits are required, in addition to those stated to you when you were here.

Very truly yours,

Enclosure.



1883-09-03

September 3rd, 3

Major Flood Page, Gen'l. Manager,  
Edison's Indian & Colonial Electric Co.  
London, E. C. England.

Dear Sir:-

Enclosed herewith please find statement of Mr. Edison as to canvassing towns for central station purposes, also statement as to the progress of our business in America. If you desire any further information on these points, please inform me and I will write you fully as to the matter.

Very truly yours,

Enclosure, d.

1883-09-03

Sept. 3rd, 1883.

C. J. Willard, Esq.

Care Mr. Phenson, Willard & Co.

Portsmouth, N. J.

Dear Sir:-

Could you take some of the cores which we have at  
George Street and hammer them down so that they would be thicker  
and shorter? If so, on what terms could you do this?

We wish to alter over a number of our E and L machines,  
and in order to do so economically we shall have to get the cores  
hammered down to shorter lengths of great diameter.

Very truly yours,

1883-09-03

September 3rd.

3

John W. Ligg, Esq.

Via Manzoni, 13 A,  
Milano, Italy.

Dear Sir:-

I find your letter of the 1st. July has been overlooked.

If the Italian Company will give you from \$2000. to \$25000. a year, I donnot think you would be doing better if you took from them a three years contract.

I think it would be a great mistake to use a regulator with relation to the station. If you will communicate with Mr. Kitcheler, I have no doubt he will give you all the information you may desire on this subject.

You should use an amper's meter to show the number of lights on the system at any given time.

I enclose you herewith rough sketch of an instrument that we use for this purpose, which works very well indeed.

Very truly yours,

Enclosure.,f.

1883-09-03

Sept. 3rd. 1883.

H. C. Blackmer, Esq., Supt.

N. Y. Mica Mining Co.

Custer, D. T.

Dear Sir:-

Your very abusive letter of the 17th. ulto., addressed to Mr. Wells, has been turned over to me to reply to, in consequence of the gentleman who conducted the correspondence with you having left my service.

I have called for copies of the whole correspondence with you in relation to this matter, and will endeavor to settle it immediately the same is placed in my hands, as it is very distasteful to me to be compelled to have dealings with any one who doubts the veracity of statements emanating either from my own office or the office of my shops, the Edison Machine Works.

I do not know what has been done in the matter recently, beyond your letter of the 17th. August, so am unable to say anything further than this at this writing.

Very truly yours,

*Dynamo*

1883-09-03

Sept. Ord.

3

Messrs. Bergmann & Co.

202 Avenue B, City.

Dear Sirs:-

Mr. Andrews writes as follows with relation to the new house changing switches:-

"On farther consideration, I think the connecting posts on double main switch should be made on same pattern and size as connecting post on head-board of 'H' dynamo, as there will be three wires running to each of them, and it will be best to clamp all three."

Will you see that this is done.

Very truly yours,

Patents

1873-09-03

Sept. 3rd.

3

Charles Hatchelor, Esq.

Paris, France.

Dear Sir:-

I wrote you some time back in reference to Italian patents, and you sent a form which is not exactly what is required by us.

What we want to get is a copy of an official paper or order issued by the Italian Government in response to an application for prolongation of a patent.

Very truly yours,

1773-09-04

Sept. 4th.

George H. Hopkins, Esq.

C-O "Scientific American"

261 Broadway, City.

Dear Sir:-

I have your letter of September 3rd, and in reply would  
beg to state that you can use my name as reference.

Trusting that your venture will be successful, I remain,

Yours very truly,

*Tak.*  
*D*

Danbury

1883-09-04

Sept. 4th.

8

H. W. Walber, Esq.

Webster, Mass.

Dear Sir:-

I wish to call your attention to some omissions which you made in the canvass of Danbury, in order that you may rectify them in future:-

TURKISH HOUSE. An old resident of the place informs me that this is a large and first class hotel. You fail to mention it in your canvass.

RAILROAD DEPOT. You only show two lights in the telegraph office. But about the waiting rooms, Superintendent's office, platform No. 7

OPERA HOUSE. You fail to mention the number of light or the approximate time of burning.

DWELLINGS. When there are only two or three dwellings in a large block or say 1000 feet, you should always state about how many feet these houses are situated from a certain corner, as it is more than likely that without this information the lights will be improperly located. It is not necessary for you to give us the exact distance, for all practical purposes you can arrive near enough to it by pacing.

In crossing railroad tracks, bridges or any other noticeable land-marks, please mention them in your canvass. I notice



1883-09-04

2

that you generally mention railroad tracks, but you omit to say anything about bridges.

When there are no houses on an alley it is unnecessary to take up three or four pages to say, "east side nothing, north side nothing, west side nothing." If you would simply make a note at the top of the page it would answer.

Very truly yours,

A. B.

1893-09-04

Sept. 4th. 3

James Swinburne, Esq.

9 Kensington Terrace,

Gateshead-on-Tyne, England.

Dear sir :-

I beg to acknowledge receipt of your favor of the 21st. ulto., and note what you say about the double winding of dynamos and thread carbons.

In reference to the former, I used those double <sup>around</sup> ~~wound~~ dynamos <sup>1</sup> 2 years ago, and my patent is about a year old now.

We have made thread carbons but prefer using bamboo.

I regret to say that I am unable to avail myself of the opportunity of securing your very valuable services, as I have no position which I can offer you.

Very truly yours,

J. S. B.  
J

1883.09.04

Sept. 4th.

3

Wm. J. Sprague, Esq.

Hotel Palmer,

Worcester, Mass.

Dear Sir:-

I have sent you by express this morning two maps of  
Worcester, one being your determination and the other a determina-  
tion made by Mr. Claudius.

I wish you would compare these and let me have your  
final determination, returning both maps.

I would like all information from you to be given in  
full detail, so that nothing may arise that will prevent our going  
right ahead and getting out estimates after maps have been received  
from you.

Very truly yours,

A. J.

1883.09.04

Sept. 4th.

3

W. J. Sprague, Esq.

Hotel Palmer,

Procton, Mass.

Dear Sir:-

I sent this morning by express maps of Racine and  
Williamsport for your determination.

It will be necessary to decide in each case upon the lot  
best suited to our purposes.

Please let me have this back again at the earliest pos-  
sible moment, as we are being pressed for estimates.

Very truly yours,

S. O.

1883-09-04

Sept. 4th.

3

P. D. Dyer, Esq.

St. James Hotel,

Springfield, Ohio.

Dear Sir:-

I have your letter of the 1st. inst.

It seems peculiar that the towns mentioned by you should

be dead towns.

Shall be glad to hear of the progress of your canvass  
in Springfield.

Very truly yours,

S. J.

Bergmann

Sept. 4th.

3

M. E. Glavin, Esq. Pres.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I am in receipt of your favor of yesterday, and in reply would say that Mr Insull telephoned to Bergmann's as promised, but they must have omitted to have informed you of the fact.

We shall commence the shipment of tubes in about three days, and shall start in/ing them as soon as a sufficient number have been received at Lawrence to start the men on.

Very truly yours,

Jal.  
J

1883-09-04

Sept. 4th.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am just in receipt of your telegram of to-day in  
reference to estimates for Williamsport and Bellefonte.

We are pushing them to the utmost and hope to send them  
early next week.

Very truly yours,

*W. B. Shaw*

1883-09-04

Sept. 4th.

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I have your letter of the 1st. inst, and in reply would beg to state that I will retain the temporary fixtures.

I regret exceedingly the delay that has occurred in finishing the Lawrence Station.

We will commence shipping tubes this week, and work will be proceeded with as quickly as possible.

Very truly yours,

*W. L. G.*



1883-09-04

Sept. 4th. 1883.

Spencer Gordon, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

Referring to your favor of the 1st. inst, I am obliged to you for the assistance you offer.

We have, however, obtained Mr. Soidan( formerly Mr. Clarke's assistant) as superintendent of the works.

Mr. Inall has got the better of the accounts in hand, and has had an expert working on them for a week. I am glad, however, to say that there is nothing wrong with them.

Very truly yours,

*Tal.*  
8.

1883-09.04

Sept. 4th. 1883.

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Yours of the 20th. came duly to hand.

You will have received a letter, subsequent to mine of the 4th. ulto., which will fully explain matters at the Edison Machine Works.

What I referred to when you were over here was that Mr. Edison had given Dean a 7 per cent interest in certain work, by which Dean made about \$9,000. or \$10,000. The contract work of the shop, which I referred to, is the piece work, on which the men have made a very great deal of money. So far we have been unable to find out whether Dean had any arrangement with his men by which he got a share of this money. However, we had sufficient other matters to show Edison that it was necessary to give Dean the "G.B."

I may say that I have obtained a release from Dean, by which the amount still due him on the arrangement Edison made with him is wiped out. We save \$7,000. by this release, which will go in a slight measure towards what the Edison Machine Works had lost by Dean's dishonesty.

You will see that there is no necessity to give Edison the advice to take strenuous measures, mentioned in the latter end of your letter. He had already taken the advice before your

1883-09-04

Sept. 4th. 1883.

2

letter came to hand. And the advantage of the change  
is already apparent.

Very truly yours,

S. I.

1883-09.04

Sept. 4th.

3

George H. Bliss, Esq. General Mgt.

Chicago, Ills.

Dear Sir:-

I have your letter of August 15th, with enclosure from Mr. A. J. Smith, in relation to the inaccuracies in the blue print of Appleton.

Will you please ask the President to make the corrections he speaks of on the map?

I would suggest that you should not buy a lot until you first communicate with us and give us an opportunity to calculate whether it would be a good position for our central station, as you might purchase a lot which would raise the cost of the conductors to a very high figure, owing to its location.

Will you please hurry forward the information asked for about Noonah lots on August 15th., also send us a map of Appleton as soon as possible.

Very truly yours,

*J. A. K.*  
*J.*

158309-04

Sept. 4th.

3

Sheer, Gordon, Esq.

P. O. Box 5411,

Boston, Mass.

Dear Sir:-

I have your letter of the 1st, September.

As you desire it, we will leave all matters in connection with the wiring at Fall River to yourself. You should wire for a 200 ohm lamp, and in places where there are 100 lights and over, you should put in two separate systems, so that we can take current off from both the A and B side of the three wire system.

Very truly yours,

J. A. L.  
J

1883-09-04

Sept. 4th.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

I have your favor of the 20th, and in reply to same  
would say that the sooner you can leave Paris the better.

There is plenty of work here to do and very few of us to do it.

I am going to write to the Paris Company offering them  
lamps at lower prices.

Very truly yours,

Jal.  
3

1883-09.04

Sept. 4th. 3

Messrs. Hermann & Co.

203 Avenue B, City.

Dear Sirs:-

I was in receipt of a letter from Mr. Katchelor, under date of August 7th, in which he states that he has received a bill for six arc lights complete with globes and carbons, value \$113.25.

He wishes to know if these are Dr. Rosen's arc lights, and says if they are, it was understood between Mr. Navarro and himself that these lamps would be sent as experimental ones, and he was not expected to pay anything for them.

Please let me know what I shall say in answer to Mr. Katchelor.

Very truly yours,



1873-09.04

Sept. 4th.

3

P. M. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Will you please hurry forward the information in reference to lots at Lock Haven and Renovo, sent you about August 10th

Would it not be possible for us to get information of this nature in a shorter time? It seems to me that a month is a good while to keep a man, in order to give the information we ask for.

Very truly yours,

*W. A. C.*  
*S*



1883-09-04

Sept. 1883.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter by August 31st. in reference to  
estimate for Williamsport.

The electrical determination for this place is now being  
made and the estimate will be sent you in a very short time.

Very truly yours,

*J. H. L.*  
3

1883-09-04

Sept. 4th.

3

A. Stuart, Esq. Secy.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

On August 10th. I sent you blue prints of Hamilton and  
Corytown, and on the 18th. a blue print of Washington C.H., ask-  
ing information in relation to lots. On the 3rd. of August I  
again wrote you asking you to hurry this information, as we were  
waiting for it and could do nothing until it arrived.

Up to this writing it has not come to hand, and I am  
under the impression that some delay has occurred with which you  
are unacquainted. Will you kindly look the matter up, and have  
these maps, with all the information on them, forwarded to me at  
the earliest possible moment, as we can do nothing towards getting  
out an estimate until we receive this information.

Very truly yours,

*J. A. H.*  
*J.*

1883-09-05

Sept. 5th, 1883

Messrs. Hale & Walcott,

80 Court Street,

Boston, Mass.

Dear Sirs:-

Your letter of August 28th, addressed to Sir Grosvenor P. Jewroy, has been referred to me, and in reply I beg to state that I have heard nothing from Anders. If you will forward the commission to me I will see that Milton W. Adams' deposition is taken.

Very truly yours,

T. A. C.

1883-09-05

Sept. 5th. 1883.

Ernesto Saldan, Esq. Supt.

Edison Machine Works,

104 George Street, City.

Dear Sir:-

Will you please have prepared and sent to me a statement showing the number of armatures you have on hand, what machines they are for and whether class A or B. I also want *the* list of unfilled orders, of which you should keep a copy.

Very truly yours,

*Tab. J*

1883-09-05

Sept. 5th.

R

A. Stuart, Esq. Secty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

I beg to acknowledge receipt of your favor of September 3rd.

In reference to an estimate for a 1000 light plant, it is impossible for us to make an estimate on a plant of that size, as we have no type of dynamo or engine that will answer.

We can send you an estimate for an 800 light plant or a 1600 light plant. If you will let us know which one of these will be best suited to your purpose we will have it forwarded to you at once.

Trusting that your efforts in regard to Lima will be successful, I am,

Yours very truly,

J. A. C.

1883-09.05

Sept. 5th.

3

E. T. Greenfield, Esq.

252 Avenue B, City.

Dear Sir:-

Will you please send me as soon as possible estimates  
on Blackwells Island, Wards Island and Randall Island.

Very truly yours,

Jag.

1883-09-05

Sept. 5th.

3

Frank S. Marr, Esq. Treas.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

Will you be kind enough to let me have a statement showing the number of consumers of electric light in Sunbury, also the amount of their monthly bills?

I would also like a statement of the monthly expenses of the Sunbury central station.

I would beg to remind you that we are still without a check for the balance due upon our contract, (\$5,400.)

Very truly yours,

*L. A. G.*

1893-09-05

September 5th. 3

F. J. Sprague, Esq.

Hotel Belmont,  
Brockton, Mass.

Dear Sir:-

I have your letter of September 4th, and in reply would say that I have ordered the wire, blow pipe and rubber tubing to be forwarded to you at once.

In preference to solder, why can you not get this at some local store and charge it up in your expenses?

I have ordered Mr. Friesa to ship you the insulating *tape* that you require.

I also have your telegram of this morning, and have forwarded by express a blank chart of Fall River.

As regards inside wiring, I telegraphed you this morning that we were attending to this ourselves.

Very truly yours,

*T. A. J.*



1883-09-06

Sept. 6th.

3

J. B. Campbell, Esq.

Renovo, Penna.

Dear Sir:-

I was presented this morning with a draft for \$50., drawn by you at Bellefonte, Pa.

I was under the impression that I explained to you one evening in the office here that it was only under exceptional circumstances that I allowed any of my canvassers or other travelling employees to draw upon me for money, owing to the confusion which these drafts cause in the office, even when drawn at one day's sight. I only extend this privilege when there is no other way of furnishing them with money.

If you were to send me your expense account with a little regularity, it would enable me to have a better idea of how your finances stand. I have only received one expense account from you since you started out. These statements should be made to me on the 7th, 14th, 21st, and 28th day of each month, and I expect that in future I will receive them from you in this order, and that you will make no more drafts, except when directly authorized to do so.

Very truly yours,



1883-09-06

Sgt. Gth.

2

P. D. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am in receipt of your favor of the 5th. inst. in reference to the number of lights at Lock Haven and Renovo.

The actual number of lights covered by our district in Lock Haven is 1,810 and in Renovo 730 lights. I would therefore put a 1,000 light plant in the former place and a 500 light plant in the latter.

Very truly yours,



1883-09-06

Sept. 6th. 1883.

The Edison Company for Isolated Lighting,

65 Fifth Avenue, N.Y.

Dear Sirs:-

Referring to your requisition 1,883, under date of September 5th, asking us to repair one "H" armature from the Boston "Herald", I beg to inform you that this armature has its shaft journal on the pulley side badly cut, and it will necessitate turning off, and consequently the bearing boxes now in the machines will not be available. It will therefore be necessary for us to make a new box for the journal, and I shall be glad to know if I have your authority for going ahead with this work.

Yours truly,



1883-09-06

Sat. 6th. 1883.

Gustave Soldan, Esq Supt.

Edison Machine Works,

104 Coerek Street, City.

Dear Sir:-

I am in receipt this morning of a letter from the General Manager of the Isolated Company stating that the armature sent to Baltimore proved to be too short for that machine, and will have to be returned. The pillar blocks, containing the phosphor bronze bearings, will also be returned.

I believe you sent four pounds of Habbitt metal and two sets of Habbittbearings, for which you had no requisition.

Was there any other material sent not covered by an order?

Yours truly,

E. A. G.

1883-09-06

Sept. 6th.

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 1th. inst, and in reply would say that I will do all that I possibly can to send you the estimate for Bellefonte on Saturday morning.

Williamsport is now being determined, and it cannot be returned from Brockton, where I had to send it, and an estimate made out and forwarded to you before either Monday or Tuesday, but you can rest assured that I will do all in my power to further the work.

Very truly yours,

J. G. J.

1893-09-06

Sept. 6th. 3

Messrs. Babcock & Wilcox,

30 Courtlandt Street, City.

Dear Sirs:-

Enclosed please find agreement in referenced to our  
message which Mr. Edison spoke to you about yesterday.

Very truly yours,

*T. A. L.*

Enclosure.

1883-09-07

Sept. 7th, 1883.

J. Hutchinson, Esq.

Sir,

Dear Sir:-

I beg to give you the following information which you asked for in reference to the 25 light dynamo:-

The height from the floor is 33 <sup>1</sup>/<sub>2</sub> inches, size of bed-plate 31 x 17 <sup>1</sup>/<sub>2</sub> inches, the pulley is 8 inches in diameter, with 4 inch face, and the armature makes 1400 revolutions per minute.

Very truly yours,



1783-09-07

Sept. 7th.

3

Henry A. Clarke, Esq.

3 Hoch Building,

Baltimore, Md.

Dear Sir:-

I beg to enclose you herewith three estimates for Eric  
for 1600, 2400 and 3200 lights, and amounting to \$17,371.36,  
\$40,377.70 and \$54,554.00 respectively.

In making these estimates I have spared no <sup>time</sup> efforts to  
reduce our figures to the lowest possible standard. I wish,  
however, to specially stipulate that in the case of each estimate  
our bid for the street installation is based upon the assumption  
that your Company will obtain for us the necessary permits to run  
our mains and feeders according to the red lines shown in Exhibits  
"A" and "B", sent you under separate cover.

Referring to our estimate for 1600 and 2400 lights, you  
will notice that the street installation gives a capacity of 3001  
lights, and in both these cases the station is so arranged as to  
allow you to at any time increase your capacity to 3200 lights.

You will notice in EXHIBIT "A" that our mains stop on the  
north side of Twelfth Street, between Cassell's and Ponch Streets.

In our estimate for 3200 lights the street installation  
admits of a capacity for 3011 lights, in accordance with the red  
lines shown on the map marked Exhibit B.



1893-09-07

2

I would again call your attention to the matter of permits, in accordance with the red lines shown on our exhibits. Should you fail to obtain any of these, and by this means cause any additional expense, it would be necessary for us to charge your Company with it.

Trusting that these will meet your requirements, I am,

Very truly yours,



Enclosure.

1883-09-07

Sept. 7th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Enclosed please find map of Hellenste, Pa. which requires a new determination according to the red lines.

I also enclose all your <sup>papers</sup> ~~papers~~ in reference to that place.

Very truly yours,



Enclosure.

1853-07-07

Sept. 7th.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N. Y.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 5th. inst, and in reply would say that plot No. 2, west of Montgomery Street and north of Third Street, is the most desirable location for our central station. You state in your letter, however, that these lots are on the side of a <sup>high</sup> hill. I should like to know if ~~this hill is~~ <sup>this hill is</sup> composed of rock which would require blasting or whether excavation could be made with pick and shovel. You might find out from some local contractor what he would charge per cubic <sup>yard</sup> ~~foot~~ to reduce a lot with a 40 foot front to the level of the street.

Please let me have this information at the earliest possible moment, so that I can go ahead with the estimate.

Very truly yours,

J. J.

1873-09-07

Sept. 7th.

3

S. H. Eaton, Esq. Pres.

Edison Electric Light Co.

City.

Dear Sir:-

Referring to my interview with you as to the Utica contract and your asking my opinion as to the acceptance of the proposition of the Utica Directors to make a contract with me to put up the plant there for \$37,000., the balance of my estimate (about \$3,000) to be paid by the Light Company, I wish to place on record my objection to this course being pursued in view of the fact that you propose bringing the matter before the Executive Committee for final settlement.

The proposed arrangement would be a good one for the "Construction Department", but a very objectionable one, in my opinion, for the Light Company to accept.

I consider it far better to allow the Utica Company to fall through, rather than have the Light Company accept such a proposal which would most certainly prejudice their future business, whereas the failure to close the Utica contract this Fall would have, under the worst circumstances, but a temporary effect on our business.

Yours truly,

1893-09-07

Sept. 7th.

3

Thomas A. Edison, Esq.

65 Fifth Avenue, City.

Dear Sir:-

I shall be glad if you can make it convenient to attend a meeting of the Board of Directors of the Edison Telephone Company of Europe, to be held at the office of Messrs. R. L. Cutting & Co., 10 William Street, at 4 P.M. on Tuesday the 11th. September.

The purpose of the meeting is to consider the arrangements with Col. George E. Gouraud and the Edison-Gower-Sell Telephone Company of Europe.

Col. Gouraud is now in the City and will attend the meeting and explain the state of the Company's business.

Very truly yours,

*T. A. E.*

President,

Edison Telephone Co., of Europe.

1883-09-08

Sept. 8th.

A. A. Cowles, Esq., Secy.

Ansonia Brass & Copper Co.

10 Cliff Street, City.

Dear Sir:-

Would it be possible for you to furnish us with some of the cable for inside house wiring, as per the last sample you sent us? We want some very badly to use in connection with our central station work, and would like to have it if possible before you shut down.

We require about 750 lbs. of No. 12, about 300 lbs. of No. 10, about 300 lbs. of No. 14 and about 200 lbs. of No. 13.  
very  
We shall doubtless need a good deal more of this shortly.

Will you please let us know by bearer what you can do in relation to the matters

Very truly yours,

Jag.

1883-09-08

Sept. 8th. 8

Spencer Gordon, Esq.

P. O. Box, 3311,

Boston, Mass.

Dear Sir:-

We beg to acknowledge the receipt of your favor of the 8th. inst. in reference to Dean.

Inasmuch as you have sent men to inspection at the request of Mr. Garrison, we presume there is no need to trouble further about the matter.

Very truly yours,

*F. A. G.*

1893-09-08

Sept. 8th.

A. Stuart, Esq. Socy.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 5th. September.

We have no 1000 light plants (unit), and we cannot very well give you an estimate for a 1000 light plant at present.

We think it would be a fatal error on your part not to make provision for future increase, as if you pursued that course the expense of extending your plant will be considerably heavier, than if you put a plant in now with the intention of increasing it later on.

Very truly yours,

*L. A. C.*



1893-09-08

Sept. 8th.

3.

A. Stuart, Esq. Westy.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 8th. September, with relation to our prices which you term very high.

You are entirely in error with reference to our prices on boilers and engines. We have tried every <sup>available</sup> boiler, and find that the Babcock & Wilcox boiler is the only one suitable to our business. It would be absolutely impossible for you to purchase it for the price you mention. Ordinary return flue boiler are entirely useless to us.

With relation to engines, we had considerable experience with different classes of engines, when we first started our business, and as the result adopted the Armington & Sims engine, which, considering the results obtained from it, is by far the cheapest in the market.

Very truly yours,

J. A. C.  
J

1883-29-08

Sept. 25th,

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to acknowledge the receipt of your favor of September 25th., and are obliged for the suggestions contained therein.

With relation to anything in connection with the station, whether it is inside wiring, automatic regulators or anything else, we wish you would be kind enough to make suggestions to this office only, inasmuch as you were sent to Brockton to start the station, and were given no authority to deal with other work. <sup>we</sup> would much prefer that you should discuss matters <sup>and inside</sup> outside of your province with us and not with Mr. Garrison or any other Brockton gentleman. We are always only too glad to receive suggestions from you, which your valuable experience may lead you to make, and should you think it desirable for any information to be communicated to Mr. Garrison, if you will inform us of it, we will have it sent from here. We shall esteem it a favor if you will pay particular attention to the above instructions.

As regards inside wiring, as Mr. Garrison has taken upon himself the responsibility of ordering men from Boston to do this

1893-09-08

work, there is no necessity for us to deal further with the subject.

In relation to the matter of men to assist you in wiring the station, we do not see the advisability of going either to New York or Boston to find them. We think one man would be able to give you all the assistance you will require. You could "break in" a local carpenter in a short time, and thus save a great deal of unnecessary expense. When Mr. Andrews was starting the Sunbury central station, he only required one man to assist him, and we presume that you can work with equal economy.

CHARLES. We note your remarks about forwarding you clean charts, and will in the future see that your wishes are complied with.

We fail to understand your remarks in reference to automatic regulators, and shall be glad if you will explain them.

We do not quite grasp your ideas in reference to switches. We are certain that we have ordered all the switches necessary for Brockton, and (for your information) <sup>we clarify what</sup> we have ordered as follows:-

- 8 Feeder Switches, 10 new style house changing switches, 2 new style plug switches, 10 small plug switches, 3 dynamo changing switches, 6 small plug switches for lightning protector,

1883-09-08

Sept. 8th.

3

*for middle fence wire*

4 No. 000 plug switches, <sup>1</sup> 2 inch <sup>3</sup> ~~inch~~ and 1 double dynamo changing switch of new design. The bank of test lamps requires 2 large plug switches and 10 small plug switches of different design. These switches were ordered on Mr. Andrews experience at Sunbury.

It is our desire to have uniform electrical connections for all our stations, and if you are unacquainted with the fixtures which I have decided upon, and which experience has proved to us to be the best for our business, we shall be very glad to give you what information you want at any time you may ask for it.

Is the breakdown switch you refer to the one designed by Mr. Andrews? *(the double dynamo changing switch)*

We wired you last night requesting you to send two determinations of Fall River, and stating that we had ordered all the wire which you wanted. I am notified this morning, by the Western Union Telegraph Company, that you left Brockton last night for New York, and that the telegram is undelivered. I presume, however, that there is some mistake in the matter.

We wish you would very kindly bear in mind the remarks we have made in reference to suggestions. We are only too glad to receive ideas from any source whatever, as long as their flow is directed to this office, but we particularly wish to reserve to

1883-09-08

ourselves the privilege of distributing these ideas among people  
only indirectly connected with our business, as the improper use  
of them may cause us very serious inconvenience.

Very truly yours,

*T. A. C.*

1883-09.08

Sept. 8th. 3

W. S. Andrews, Esq.  
Shawokin, Penna.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 4th. inst, and note what you say in reference to the Sunbury engineer and motorman.

I am having printed copies made of the dynamo questions and answers and "instructions", and will send you copies as soon as I receive them from the hands of the printer.

Very truly yours,

J. A. G.

1883-09-08

Sept. 8th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I have your letter of August 7th, and have been obliged to delay answering it in order to obtain information from McVergmann in reference to arc lights.

That gentleman says that he received an order for these lamps from you orally, and that he only knows you in the matter, but if Mr. Navarro wishes to have the charge transferred to him, he (Vergmann) will do so. The lamps referred to are Dr. Rodos' patent.

Regarding dynamos, our "H" machine gives 400 amperes; we are winding with larger wire and will get from 450 to 575 amperes easy without any other change. We are running, with perfect success at Louisville, 14 "H" machines, with a constant load every evening of 400 amperes.

You can tell Bailey that, taking <sup>to account</sup> in costs, we will discount Hopkinson and go him ten per cent better on anything he can do.

Yours very truly,

T. G. E.

*Electricity - Motors*

1883-69-08

Sept. 8th.

3.

George S. Ladd, Esq.

222 Sansome Street,

San Francisco, Cal.

Dear Sir:-

I have your favor of August 30th, and in reply beg to state that nickel as a conductor is seven times worse than copper and four times more expensive. Mr. Burbage has no authority from us to make a statement that a nickel mine would be of great value to for electrical and telegraphic purposes and that it is superior to copper as a conductor, as such is not the case.

The instructions for canvassing towns in the interest of the electric light were sent you some time ago.

Very truly yours,

*J. L. G.*



1883-09-09

Sept. 9th.

3

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sirs:-

Referring to my contracts with Messrs. Biedermann,  
Zurich and Cherbules with reference to the introduction of my  
system of electric lighting into Switzerland, I hereby accept and  
ratify Article Seventh of the Statutes of your Company concerning  
the transfer consented to and accepted for the price of 135,000  
francs, and I also accept and ratify the rest of the Statutes  
of your Company.

Very truly yours,

1883 09-09

Sept. 8th.

3

Messrs. Bergmann & Co.

202 Avenue B, City.

Dear Sirs:-

Please send me by bearer ten (10) copies of your catalogue and give me your best rate of discount for our Swiss Company. They are at present buying their material from the London Company, and I have no doubt but what I can get their trade for you if you will put your discounts as high as possible.

Very truly yours,

*J. A. K.*

22. St. -

1883-09-10

Switzerland

Sept. 10th.

3

A. Achard, Esq. Prost.

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sir:-

Referring to my letter to you of this date giving prices, since I wrote that letter I have received from Messrs. Bergmann & Co. the following:-

"We are anxious to get the trade of the Swiss Company, and will agree to furnish goods in our catalogue to them at thirty (30) per cent discount, excepting sockets, cut-outs and switches, on these, as an extra inducement, we will make the discount thirty two and one half (32 1/2) per cent.

These prices are better than Messrs. Bergmann & Co. have ever quoted to anybody, and I trust that they will prove acceptable to you.

The above cancels that part of my former letter which refers to Messrs. Bergmann & Co's discount as being twenty five (25) per cent.

Messrs. Bergmann & Co. ship goods charging for boxing and cartage on same, but this is a very small amount.

1883-09-10

2

I would suggest that you prepare a telegraph code for use between your Company and myself.

Anything that you may require from here I shall be glad to attend to the shipment of, and in fact would suggest that all orders should be sent to me and payments made to me, in order to avoid confusion and to insure your getting exactly what you require.

Very truly yours,

J. A. E.

1883-09-10

Sept. 10th.

3

A. Achard, Esq. Messrs.

Societe d'Appareillage Electrique,  
Geneva, Switzerland.

Dear Sir:-

I have received your various letters as to the formation of your Company, and have recently received from my Attorney, Mr. Goddard, a full report on the matter, which enables me to reply to the various questions raised by you.

First, as to material. Within the last few months we have made a great many changes in connection with the construction of our dynamo machines with a view to increasing their capacity for a given investment, and in many cases is increasing the capacity and reducing an investment. We have so far turned out a 400 light machine, which we are prepared to sell to you for \$1,500., P.O.B., New York, and also a 100 light machine, for which we should charge you \$400., P.O.B., New York. At the present time we are about constructing a number of 25 light machines, 50 light machines, 200 light machines and 300 light machines. At this writing it is impossible for me to give you the exact prices of these machines, but immediately our work on them is

1883-09-10

2

advanced sufficiently, I will send you quotations for your guidance. With relation to the two machines first referred to, I have ordered for you detailed drawings of same, which will be sent forward at the earliest possible moment.

It has been quite impossible for me to write you earlier on this matter, owing to the fact that at the time you applied for information, the construction of our dynamos was in a state of transition from one style to another, and the data at our command was not sufficient to be of any material assistance to you.

With relation to sockets, electroliers and other sundries, I send you by this mail, under separate cover ten copies of Messrs. Bergmann & Co's catalogue, which will give you exactly the information you ask for. The prices quoted are subject to a discount to you of twenty five (25) per cent, which is the very best terms given by them to any of our companies.

I also send you, under separate cover, copies of Messrs. Armington & Sims engines, for which I beg to quote the following prices, N.Y., New York City:-

1	6 2 x 6 Engine.....	575
1	8 2 x 10 Engine.....	775

1883-89-10

3

1  
 9 2 x 12 Engine.....\$ 1,050.  
 10 x 13 Engine..... 1,000.

Each of the above engines have one driving pulley on.

13 x 13 engine with 1 driving pulley each side.\$1,450.  
 1  
 14 2 x 13 engine with driving pulley on  
 each side.....\$2,000.  
 1  
 14 2 x 13 engine without any driving  
 pulleys and arranged for connecting  
 directly with steam engine..... 1,900.

With relation to lamps, I beg to quote you prices as follows:-

Ten (10) Candle Lamps.....\$ .50 each  
 Eight (8) and Sixteen (16) Candle Lamps... .50 "  
 Thirty Two (32) Candle Lamps..... .75 "  
 Fifty (50) Candle Lamps..... 1.00 "  
 One Hundred (100) Candle Lamps..... 1.50 "

The above prices for lamps are F.O.B., New York.

The reason we charge sixty cents for ten candle lamps,  
 is that it is but recently that we have started to manufacture  
 them and the quantities in which we make them are comparatively  
 small and the difficulties of manufacturing are considerably  
 greater than in the case of the eight and sixteen candle lamps.

I also send you, under separate cover, six(6) complete  
 sets of our Bulletins, from Bulletin No. 8, those coming before

that number being out of print.

I further send you six (6) copies of the catalogue of our Isolated Company, and also six (6) copies of a small pamphlet on electric lighting.

I will endeavor to send you, in the course of a few days, a set of electro-types for your use.

With relation to your inquiry as to whether I can give you the right to sell installations in countries where I have no companies to exploit my patents, I beg to inform you that my contracts are of such a character that I am absolutely precluded from giving you the concession you ask for.

If you will please advise me of any further information that you may require of me, I will see that it is promptly sent you.

I enclose you herewith reduced photograph of our 400 light machine, which will give you some idea of the construction of same. The 100 light machines are got up in the same style, and immediately I have photographs of them in hand, I will send you copies.

Very truly yours,

*Yah*

Enclosure.



823-C9-10

Personal.

Sept. 10th.

3

Frank H. McCormack, Esq.

Williamsport, Penna.

Dear Sir:-

I enclose you herewith two letters of even date, one addressed to the Promoters of the Edison Electric Illuminating Company of Sunbury, and the other addressed to you as President of the Edison Electric Illuminating Company of Sunbury. The latter must not be presented to the Directors of the Sunbury Company, until the Promoters give their permission to the arrangement I propose for their consideration.

I see no prospects of the immediate settlement of my accounts, and I make the proposition contained in the two letters enclosed as the only solution of a difficulty at once embarrassing to the Sunbury Company and annoying to myself, inasmuch as I put in the plant under a contract which lead me to look for full payment immediately my work was finished. Understanding from my Secretary, Mr. Insull, that the Directors of the Sunbury Company were willing to accede to any fair proposition which would enable me to get my money or something to represent it, I think the enclosed is the best way of amicably settling the matter.

Very truly yours,

Gale

[ENCLOSURE]

1883-09-10

Sept. 10th.

3

To The Promoters of the Edison Electric Light Co. of Sunbury,  
Sunbury, Penna.

Dear Sirs:-

Referring to my letter to the President of the Sunbury Company of even date, I make the proposition contained in that letter on the condition that the stock to be received by you (as Promoters) from the Edison Electric Light Co. shall be allotted to me, or if allotted, transferred to me in proportion to the amount of stock allotted to me by the Company in settlement of my account against them. For example, if it takes three tenths (  $\frac{3}{10}$  ) (after increasing the stock) of the capital stock of the Company to enable them to settle my claim, the amount of the Promoters shares I am to receive in addition, shall be three tenths (  $\frac{3}{10}$  ) of the total amount of shares of the Sunbury Company received by you as Promoters from the Edison Electric Light Co. under your arrangement with them.

Very truly yours,

*G. A. B.*

[ENCLOSURE]

1883-09-10

Sept. 10th.

Frank H. McCormick, Esq. President.

Edison Electric Illuminating Co. of Sanbury,  
Williamsport, Penna.

Dear Sir:-

I am anxious that the indebtedness of your Company to me (about \$8300.) should be settled forthwith. I beg to propose that the balance of ~~subscribing~~ in your Treasury be allotted to me in part payment of the above amount, the price to be allowed for said stock being the par value of the shares. To pay for the balance remaining after that, your Company must increase their capital stock to such an amount as to pay me (in stock) for said balance.

Please have this matter brought before your Directors and acted on as early as possible.

Very truly yours,

L. L. L.

1873-09-10

Spot. 10th Dec. 3

Gustave Seldan, Esq. Supt.

Edison Machine Works,

104 Goerck Street, City.

Dear Sir:-

It is very important that I should have tracings of the 100 light machine and the 400 light machine, so as to enable me to take a number of blue prints or send to send to our various foreign companies. If you can oblige me by getting these out at the earliest possible moment, I shall esteem it a favor.

Very truly yours,

A handwritten signature, possibly 'S. J.', in dark ink.

1883-09-10

Sept. 10th. 3

W. D. Dwyer, Esq. Frost.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

Finding that the wire, that I wrote you about, would not be ready in time to enable you to take advantage of it in the first case, I sent a wireman to Shamokin to start the wiring there, so as to enable us to get sufficient lights on when to make a showing when the station at Shamokin is put in operation.

I was very much surprised and somewhat annoyed at finding that that wireman would have been sent back to New York by you without your communicating with me at all in the matter.

In order that we may get some lights started at Shamokin at the earliest possible date, I would strongly advise that you send to Northbury for a man who is doing the wiring there and have him wire up several prominent buildings to start the work.

It is only a matter of a very few weeks before we will be able to supply you with a very much cheaper material for wire work, but in the meantime I think that your business would suffer very much if the station was left in its present state until that material is ready.

Very truly yours,

J. A. T. J.

1893-09-11

Sept. 11th.

3

P. D. Oyer, Esq.

London, Ohio.

Dear Sir:-

I have your letter of September 5th, dated at Springfield, Ohio, and in reply beg to say that I do not at all approve of Mr. Stuart's ideas as to how a city should be canvassed. If you canvass a city of the size of Springfield for only 1000 lights, if they should ever want to increase their plant, it would necessitate another canvass, while our present style of doing business enables us to at any time to make a desired increase in the capacity of a plant with very little additional expense. It will therefore be better for you not to adopt Mr. Stuart's suggestions.

I should like very much to take a trip to the Cincinnati and Louisville Expositions to see our plants in operation. I hear excellent reports from all quarters, and from them judge that we are making a very fine show. Unfortunately, however, I am so busy that I cannot even run into the country for a few days to recuperate, notwithstanding the fact that I am very nearly "played out" with hard work. I hope, however, that the spell of cold weather, which we are at the present moment enjoying, will have a bracing effect upon my constitution and enable me to hang

1883-09-11

2

out" without taking any holidays.

Very truly yours,

SS

1883-09-11

Sept. 11th.

J. R. Campbell, Esq.

Williamsport, Penna.

Dear Sir:-

I received this morning your letter and map in reference to Renovo.

Have the Renovo Company, by their charter, the privilege of running wires according to the red lines shown on our maps. I find that you have not given me this information, and should like to know if we can run through private property, and if there are any obstructions in the way and the nature of them?

I wish you would always be careful in sending reports upon a town to include this information, as without it it is impossible for us to make a proper estimate of the cost of the street installation.

Very truly yours,





1883-09-11

Sept. 11th.

3

A. A. Cowles, Esq. Secty.

10 Cliff Street, City.

Dear Sir:-

I have your letter of the 10th.

The price named by you for the cable seems very high indeed. Cannot you possibly make it for us for less than 48 cts. per pound? We desire the cable put up in coils. We order by Birmingham gauge.

Very truly yours,

1883-09-11

Sept. 11th. 1883.

The Edison Co. for isolated lighting,  
City.

Dear Sirs:-

Referring to your favor of yesterday's date, it is very uncertain when we shall be able to take in hand the changing over of the "Z" and "J" machines. Even if the "Z" machine is changed into a 100 light machine it will of necessity be a more expensive machine than the present 100 light machine and by no means so good looking.

Yours truly,

1883-09-11

Sept. 11th.

3

J. P. Bailey, Esq.

33 Ave de-l' Opera,

Paris, France.

My dear Bailey:-

I have your letter of August 10th, and note what you say in reference to an International Society in London.

I do not believe that your scheme would be feasible in that place, but I think that Paris might do.

In reference to the other points in your letter, Major Eaton is writing you, embracing them all.

Very truly yours,

*Gale*

1893-09-11

Sept. 11th.

3

W. H. Rich, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I have your letter of September 8th, and have ordered forward the glass for the oilers and the gibs, which were broken in transit.

I presume by this time you have received the 35 feet of 3 inch rubber tube which you asked for.

I think it would be as well for you to obtain office furniture in Brockton, keeping the cost of same under \$100.

I do not understand what the oil cans are which you ask if you shall return.

I also have your letter of September 1st, enclosing sketch showing the disposal of indicators and switches in the Brockton central station.

Very truly yours,



1883-09-11

Sept. 11th.

3

Messrs. Borgmann & Co.

202 Avenue B, City.

Dear Sirs:-

Then can you supply us with a <sup>1</sup> 4 horse power motor  
and a <sup>1</sup> 4 horse power motor with connections complete? We want  
to send them to Brockton.

Very truly yours,

1883-09-11

Sept. 11th.

3

N. S. Keith, Esq.

41 Liberty Street, City.

Dear Sir:-

Will you please let me have shipping directions for the  
plating machine built at the Machine Works.

Very truly yours,

J. A. B. J.

1883-09-11

Sept. 11th.

3

G. W. Wilber, Esq.

Corner 4th. & Rodman Sts.

Fall River, Mass.

Dear Sir:-

I enclose you herewith map of Fall River, and I have enclosed in a red line the district that I want you to canvass first. After you have canvassed this district you can go ahead with the rest of the city, but I want you to take in a larger area than is shown on this map. I believe the city extends considerably further South, North and East than is recorded on the enclosed, and if you consider it advisable to go further West, I want you to do so. I am particularly desirous of having this canvass made with all possible despatch, and therefore think it would be better for you not to make it in book form, but to get it out on sheets, which you can work up every night and send us the data in the morning, so that we can go right ahead with the map as this information comes to hand and have it completed by the time your canvass is all sent in. I trust that you will do everything in your power to rush this through, as it is imperative that we should have the estimate ready by the 21st. After the map is completed it has to be sent to Boston for the electrical determination to be made, and you will therefore see that no time is to be lost

1883-09-11

2

in forwarding your notes.

Please be careful in mentioning dwellings to give the class and if you come across any bridges state whether they are draw bridges or not.

I notice in your canvases of Natick that in some places you canvass a store for the first time say at 8.05 P.M. or later and mark it "closed". It would be well for you to find out if the store closes at 3 P.M. or if it remains open until 7 or 7.30.

Very truly yours,

1883-09-11

Sept. 11th.

Messrs. Bergmann & Co.

403 Avenue B, City.

Dear Sirs:-

I am in receipt of a letter from Mr. Andrews, under date of September 4th, and I beg to quote the following for your information:-

"I hope that Bergmann is pushing forward the three ampere meters and the pressure indicators, also the double main switch for spare dynamo and my standard volt meter. I shall soon be waiting for the ampere meters etc. I wrote a letter to Mr. Clarke concerning these instruments yesterday, and I trust that Mr. Bergmann will see that my directions concerning them are carried out or we shall have trouble."

Mr. Andrews at the moment is in the City, and will doubtless call upon you with reference to the above.

I have this day sent to Herr Oscar Von Miller, Munich, Bavaria, bill of lading for one box of electrical material shipped by you on the 5th. inst. by the "Red Star".

Very truly yours,

S. L.

1883-09-11

Sept. 11th. 3

S. R. Bailey, Esq.

Oxford, Conn.

Dear Sir:-

Your favor of the 7th. inst. came to hand yesterday.

With relation to what you have to say about my telephone, all the comment I can make on this is that you are entirely in error. I have never taken advantage of yours or anybody elses inventions or suggestions. I am altogether too busy to consider any matters outside of my own inventions, and would therefore suggest that you should patent your ideas and work them out yourself.

Very truly yours,



1883-09-12

Sept. 12th. 3

Frank H. McCormick, Esq. Pres.

Edison Electric Illuminating Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

I have your letter of the 5th. inst. in reference to  
providing insurance on the Sunbury central station.

The value of the machinery, together with the building, is  
about \$8,000., and one per cent would be a fair rate on a risk  
of this character.

Very truly yours,

*T. A. G.*

1883-09-12

Sept. 12th.

3

Philip Richardson, Esq.

Box 586,

Woburn, Mass.

Dear Sir:-

I have your favor of the 10th. inst, and in reply beg  
to state that we have changed one of our machines to a plating  
machine for Mr. Keith for metallurgical purposes. It gives 8 2  
volts pressure and 455 amperes of current. The price was \$1,300.

Trusting that this will give you all the information  
you require, I am,

Very truly yours,

*T. A. C.*

1883-09-12

Sept. 12th.

3.

W. D. Rich, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I have your letter of the 10th. inst, and in reply would say that I do not understand your statement that there is no material at Lawrence to commence work on.

The bedplate and washers for the 14 1/2 x 18 engine, together with washers for bolts which were ordered for the 11 1/2 x 10 engine, went forward on the 11th. inst. The bolts and pipes for both engines went forward on the 24th. inst. Air chamber covering was forwarded on the 26th. and bolts for the dynamo on the same date. Test lamps on the 27th, and with one or two exceptions, the engine room and meter room sundries have all been despatched.

I have just been notified by Messrs. Babcock & Wilcox that the boiler was shipped <sup>yesterday</sup> ~~on~~ morning, and you can have the 14 1/2 x 18 engine anytime <sup>after</sup> this week by notifying Messrs. Armington & Sims to ship it. The steam piping should go forward to-morrow.

I have advised you right along of the shipment of this material, and I shall be glad to know if any of it has gone astray, as in that case we must have tracers sent out for it immediately.

1883-09-12

Sept. 12th.

8

The Electric Tube Company have already commenced to  
ship tubes.

I shall be glad to know if there is anything else that  
you have not received which will prevent your going ahead with the  
work.

As requested, I enclosed you herewith a plan of the Law-  
rence station, and also two bird prints of the underground con-  
ductors. You will recollect that these conductors stop at  
Jackson Street, those beyond that showing the extension which the  
Lawrence Company propose to make later on.

Very truly yours,



1883-09-12

Sept. 12th,

3

Edison Electric Light Co.

London, E. C. England.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

8 candle lamps....	\$ .40
16 candle lamps.....	.40
10 candle lamps....	.30
32 candle lamps....	.60
50 candle lamps....	1.00
100 candle lamps....	1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the Ports of London, Bristol, Liverpool, Glasgow or any other English Port to which shipping rates are not higher than those to the Port of London.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices,

1883-09.12

2

but find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also. Those quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*T. A. C.*

P.S. If you are prepared to order 5 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of London, Bristol, Liverpool, Glasgow or any other English Port to which shipping rates are not higher than those to the Port of London.

1883-09-12

Sept 12

3

Deutsche Edison Gesellschaft,  
50 Leipziger Strasse,  
Berlin, Germany.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

8 candle lamps.... 3.40

16 candle lamps.... 4.40

20 candle lamps.... 5.30

32 candle lamps.... 6.00

50 candle lamps.... 1.00

100 candle lamps.... 1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the ports of Hamburg, Antwerp or Genoa.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices

1883-09-12

2

but find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices of these lamps also. These quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*T. A. L.*

P.S. If you are prepared to order 8 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the ports of Hamburg, Antwerp or Genoa.



1883-09-12

September 12th.

3

A. Schard, Esq. Prost.

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sir:-

Referring to my letters of the 10th., I beg to supplement the prices quoted for lamps by the following:-

If you will order from us lamps in lots of 10,000, we will give you the following prices:-

8 candle lamps....\$ .40

16 candle lamps..... .40

16 candle lamps..... .50

32 candle lamps.... .60

50 candle lamps.... 1.00

100 candle lamps.... 1.50

If you give us an order for 25,000, we will give you the further advantage of delivering the lamps free on board in the Ports of Hamburg, Antwerp or Havre.

Very truly yours,

*J. Schard*

P.S. If you are prepared to order 4 candle lamps in lots of

1883-09-12

2

10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board in the Ports of Hamburg, Antwerp or Havre.

1883-09-12

Sept. 12th.

3

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

In view of the improvement in the manufacture, and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

4 candle lamps,....\$ .40

10 candle lamps,..... .40

16 candle lamps,..... .50

32 candle lamps,..... .60

50 candle lamps,..... 1.00

100 candle lamps,.... 1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the Ports of Hamburg, Antwerp or Genoa.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices,

1883-09-13

2

But find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also. These quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*Jab.*

P.S. If you are prepared to order 8 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of Hamburg, Antwerp or Genoa.

1883-09-12

Sept. 12th.

3

P. H. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge receipt of your favor of the 11th inst, and regret to state that it was necessary for us to obtain a new determination of Baltimore, and we were consequently unable to forward you the estimate on Saturday as promised in the previous letter.

I will send you estimates of Williamsport to-morrow morning for 1900 and 2400 lights.

In reference to Oil City, I presume you are aware that we have as yet made no canvass of that place. I suppose, however, you will notify us when you want this done.

Very truly yours,

*H. Talcott*

1893-09-12

Sept. 13th.

3

Major S. B. Eaton,

City.

Dear Sir:-

I am in receipt of a letter from Messrs. Harris & Robinson, under date of September 11th., asking us to make a canvass of Norwalk, South Norwalk and Waterbury, and shall be glad to know if we have your authority to go ahead and do the work?

Yours truly,

J. A. G.

1883-09-12

Sept. 12th. 3

A. A. Cowles, Esq. Recty.

19 Cliff Street, City.

Dear Sir:-

I beg to acknowledge receipt of your favor of the 11th. inst. in reference to triple covered wire, and will send you the sample that you ask for in a day or so.

Very truly yours,

A handwritten signature, likely of the sender, is written in dark ink. The signature is stylized and appears to be the initials 'S. J.' or similar, followed by a flourish.

1883-09-12

Sept. 12th.

3

W. H. Douty, Esq. Pres.

Shenokin, Penna.

Dear Sir:-

I wired you this afternoon that you should order through the Edison Electric Light Company, 250 lamps of ten candles each to start on.

In order to explain to you my reason for sending this telegram, I would say that the lamps have to be ordered through the Light Company, as the Edison Lamp Factory cannot recognize orders unless they are received through that Company.

Very truly yours,

*T. A. B.*



1883-09-13

Sept. 13th. 3

W. R. Upton, Esq.

Harrison, N. J.

Dear Sir:-

I beg to acknowledge receipt of your postal card of the 13th, inst, and in reply would say that Mr. Edison is going to Shamokin on Monday, the 17th. prox.

Very truly yours,

1883-09-13

Sept. 13th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Wrocton, Mass.

Dear Sir:-

In reference to your several communications received during the last few days, I regret to say that Mr. Insull, who has these matters in hand, is at the present moment ill and confined to his bed. He will, however, be in the office again to-morrow or next day, when he will send you the necessary answers.

I have your letter of to-day's date giving the size of the coils for the regulator designed by you and have referred a copy of it to Hermann & Co.

Very truly yours,

1883-09-14

Sept. 14th.

3

W. D. Rich, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I have your letter of Sept. 13th., and in reply would say that the parts of the "B" dynamo which were lost in transit will be sent you immediately. The delay in sending these was caused by the Superintendent of the Machine Works not understanding what you meant by "gib". I showed him your sketch and he now understands what it is that you want.

In reference to oil cans, please return those you have on hand at Brockton to John Ott, care Bergmann & Co., 293 Avenue B, New York.

I note your remarks in reference to Lawrence, and I presume that you can start on Monday to erect the boiler.

I telegraphed Samuel L. Moore & Sons this morning to send me a duplicate shipping receipt for the washers and bolts. When I get this, I will send it to you and you can have the railway agent at Lawrence send out tracors for the missing material, providing it does not arrive in the meantime.

I will write Messrs. Armington & Sims in reference to the stop valves on their 1 1/2 x 13 engine, and have it made the pro-

1883-09-14

2

per size.

The Lawrence meters went forward yesterday, and I think the Brockton meters were shipped at the same time, in any event you will receive them in a day or two.

Freight bills came to hand "O.K."

Very truly yours,

*Lab. Y*

1883-09-14

Sept. 14th.

3

J. R. Campbell, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter of the 14th. inst., and forwarded to you yesterday morning another chart of Williamsport.

In reference to the Williamsport Company securing themselves the necessary concessions to erect poles on private property, I would state that we much prefer to obtain these permits ourselves, but if the Williamsport Company desire that we shall allow them to obtain the permits, we will do so, but simply stipulate that our bid for the street installation will only hold good providing the concessions are obtained in accordance with the lines shown on our exhibits.

Enclosed find check ~~for~~ 50 for \$50. to cover your expenses.

Very truly yours,

*L. A. G. y*

Sept. 14th.

George W. Elias, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

I was informed by a gentleman, who boarded at the Palmer House, Chicago, that the lights installed in that building go out two or three times a week. I presume that you have been unaware of this fact, and I write this letter in order that you may have the matter corrected.

Very truly yours,

*Faby*

1883-09-14

Sept. 14th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brookton, Mass.

Dear Sir:-

We have the pleasure to acknowledge your favor of the 6th. inst, which would <sup>have</sup> been replied to earlier but for circumstances which have interfered to prevent this being done.

AUTOMATIC REGULATOR. We do not believe at all in the use of automatic regulators in central stations whilst the regulator is in such a condition. In our opinion the automatic regulator is a necessary evil in isolated plants where there is great variation number of lamps on at any one time and the variations in speed. Both these difficulties are comparatively overcome in our central stations, and I much prefer hand regulation. With relation to the hand regulator, I enclose you herewith a sketch which will show you the method in which Mr. Andrews connected up the regulator at Sharnokin, where the same blunder had been made in this connection as the one you now have. You probably can set it right by pursuing the same course as Mr. Andrews did.

With relation to men, if you find it cheaper and more economical to use wiremen, you can of course have them. What we want to do is to have the work done as well and as economical as

1883-09-14

3

possible

The connections, such as designed by Mr. Johnson, have been ordered for you and will be shipped immediately they are ready.

With relation to the switches, we enclose you herewith a rough sketch of the arrangement of the station at Shamokin.

All reference in letters written you have been partly based on the method pursued at Shamokin.

Will you please see if you have switches to answer for the work at Brockton, following generally on the same character of work as that done at Shamokin, and a knowledge of which the enclosed sketches will give you? If you have not we will order such switches as you may intimate as being requisite. It is our impression, however, that you have all the switches, and in fact several over, except possibly several plug switches for cutting the bank of resistance in and out.

The reference in our letter of the 5th. Mr. Sanbury was in error, Shamokin should have been mentioned, as the criticism on switches required by you was based on what had been found to suit the purpose at Shamokin.

Yours truly,

*Tabby*

Enclosure.



1883-09-14

Sept. 14th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

This will introduce to you Mr. Johnson, whom we are sending to Brockton to take charge of the wiring of houses under your direction. We desire that Mr. Johnson should wire enough houses to make a showing on at the start, and if he requires any assistance, that he should obtain it locally, subject to your approval.

When I get to Shrewsbury, I will choose a local man, who is to be taught our method of wiring. You will of course see that Mr. Johnson follows out generally the plans laid ~~out~~ at Sunbury, with relation to inside wire work.

Yours truly,

Yag  
y

1883 09.14

Sep. 14th.

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Please impress upon Mr. Jenk's the fact that we must not cut in any customers the total of whose lamps will not give us at least two hours and thirty minutes average for 300 days. If he is going to cut in any one who wnts the light, the station will simply be a commercial failure.

The maximum number of lights that a party ever burns at any one time, divided by the total lamp hours in 300 days should give not less than 730 hours per lamp. Of course a party may have 50 lamps connected, but never have more than 10 lighted; if that is the maximum, then those are the lamps to be counted.

Do you see the point?

Yours truly,

*E*

1893-94 - 15

Sept. 15th.

3

G. P. Lowrey, Esq.

2 Broad Street, City.

My Dear Mr. Lowrey:-

I enclose your herewith copies of letters to  
Sir John Lubbock and Theodore Waterhouse, in reference to the  
fusion of the Edison and Swan Companies in England.

Very truly yours,

Enclosure.

1893-09-15

Sept. 15th,

A. A. Cohen, Esq. Secty.

15 Cliff Street, City.

Dear Sir:-

In reply to your favor of September 15th., I beg to say that I will speak to Mr. Engeli in reference to the cost of tape.

Regarding cotton for outside wrapping, I agree with you that plain uniform color will look much better than the "bamboo" pattern, and shall be glad if you will choose something that will answer.

Very truly yours,

1883-09-17

Sept. 17th. 1883.

S. B. Fazio, Esq.

P. O. Box, 3311,

Boston, Mass.

Dear Sir:-

I have your favor of the 14th. inst. in reference to the brushes on the 400 light dynamo.

At the Louisville Exposition we have fourteen "H" dynamos, eight of which carry 400 lights each, and on which we are using the brushes you speak of. I am informed that these brushes work beautifully and the commutator polishes. We make all our tests with the brushes you have.

It would be impracticable to use a set of "J" brushes on the "H" machine. The "J" brush is soldered to the trough, while the "H" brush is movable in a shorter trough which is fastened to the brush-holder.

Very truly yours,

1883-09-17

Govt. 17th. 3

G. W. Wilber, Esq.

Corner 4th. & Bodden Sts.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 16th. inst, it would be  
as well for you to send us a special report on Fall River.

Very truly yours,

1883-09-17

Sept. 17th. 3

Messrs. Harris & Robinson,  
Room 2, Trust Co's Building,  
Hartford, Conn.

Dear Sirs:-

Referring to your letter of the 13th. inst., I beg to say that we mean by "House Lights" the number of lights used in a house. It is impossible for a canvasser to get into a house and find out how many lights are burning, but by deciding the character of the house he can make a very accurate estimate.

I send you under another cover duplicate maps of Hartford, Danbury and Southington, also the Isolated plant books you asked for.

In reference to estimates, we have no available copies at the moment which we could send to you, and we are so pressed with work that it would be impossible for us to get these done at once. I will, however, send you copies as soon as I can get some made.

Very truly yours,

1883-09-18

35 Fifth Avenue,

New York, Sept. 18th, 1883.

J. W. Mackenzie, Esq.

Cable Time Telegraph Co.,

Temple Court,

6 Hickman Street, City.

Dear Sir:-

In consequence of the <sup>pressing</sup> ~~business~~ nature of my business, and many things that I am interested in, I would like to surrender all interest in your transmitter for England, <sup>and</sup> on your reimbursing me any amount that I may have incurred up to this writing in connection with said invention. I am compelled to take this course, owing to my time being so fully occupied, that I feel it is impossible for me to deal with the matter in a manner satisfactory either to you or myself.

Very truly yours,

*S. J.*



1883-09-18

Sept. 18th. 3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.  
City.

Dear Sir:-

I am in receipt of a letter from Mr. Batchelor, and I beg to submit to you the following extracts for the Defect Report:-

"The 'C' dynamos all came to Milan without having the bearing places of the shafts tallowed. They were wrapped with paper and then outside of this was some tallow, but not inside. The sea air so rusted them that it took over two months to get them to run without heating. They ought to tallow them well and afterwards wrap them with a piece of felt that has been dipped into melted tallow..

Armington Engines. The Armington engines came not entirely together and there were no marks to tell which piece belonged to each engine."

Dynamos. Under the commutator bars we have always put japanned paper instead of mica in the small sizes of dynamos. I find that in many cases this paper is carbonized and sometimes even we have noticed nothing wrong with the machine particularly.

1883-09-18

2

Yours truly,

1883-09-18

Sept. 18th. 3

W. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Enclosed please find map of Southington; which requires  
an alioyical determination, according to the red lines. It is  
to be all pole lines.

Yours truly,

*J. A. C.*  
7.

1883-09-18

Sept. 18th. 1883.

Gustave Seldan, Esq. Mpt.

104 George Street, City.

Dear Sir:-

I am in receipt of a letter from Mr. Batchelor in which he says that the "C" dynamos all arrived at Milan without having the bearings places of the shafts tallowed. He says they were wrapped with paper and outside of this was some tallow, but not inside. The sea air so rusted them that he says it took him over two to get them to run without heaving. He says that with the next shipment you ought to tallow them well and afterwards wrap them with a piece of felt that has been dipped in melted tallow.

Franklin On Dynamos. Mr. Batchelor states that under the commutator bars <sup>they</sup> have always put japanned paper instead of mica, in the small sizes of dynamos. He says that they find in many cases this is carbonized and sometimes even they have noticed nothing wrong with the machine particularly <sup>they are</sup> using mica in them now.

Yours truly,

*F. Seldan*

1873-09-18

Sept. 18th. 3

Messrs. Armington & Sims,  
Providence, R. I.

Dear Sirs:

I am in receipt of a letter from Mr. Hatcholer in which he states that the Armington engine arrived in Milan not entirely together and there were no marks to tell which piece belonged to each engine.

Will you kindly have this matter adjusted in future, and oblige,

Very truly yours,

*Gal*

1893-09-18

Sept. 18th.

3

Societe Electrique Edison,

Paris, France.

Dear Sirs:-

I beg to acknowledge receipt of your favor of the 31st. August in reference to electric railway. In reply I would say that it is impossible for me to take this matter up, as I have too much work on electric light business.

Things are "booming" here in village and city plants.

Very truly yours,

*Tak*  
7

1883-09-20

Sept. 20th.

3

T. A. Edison, Esq.

Weyers National Hotel,

Shawokin, Penna.

My Dear Edison:-

Your telegram came to hand asking for chemicals, motors, scales &c., and the various articles enumerated have been shipped. The motors were kept back purposely; the rest of the articles should have been shipped but for a blunder, which I suppose I must take the credit for.

Soldan started to test the 300 light machine yesterday, but found a cross in the armature, and when I left the Works this morning this trouble had not been fixed, but he promises to let me have a report on a partial test this afternoon, but up to this writing it has not yet come to hand. As soon as I get it I will send it to you..

I saw Dowlen to-day in reference to the cable, and he says it is impossible to state exactly when they can deliver some of it, and as it is a new thing he is depending entirely upon the factory as to when it will be turned out. If it was an article of ordinary manufacture he could name a time, but says he will push it through as quickly as possible.

1883-09-20

Sept. 20th.

2

I was in the central station to-day and Chinnuel was trying a pair of the new brushes. There was quite some heat from them, and one brush had got burned very badly indeed. When I left, however, the brushes were working a little better, and he was carrying 600 or 700 lights on the brushes from the district and not from the test lamps upstairs.

I had a man in here to-day from Fitchburg, Mass. He runs the Thomson-Houston business and wants to get up Edison Companies in about ten towns. He came on here at the suggestion of Elias, and I think that when you get to Brockton next week you can make a "dicker" with him. I am to see him to-morrow again. He is one of those real live fellows, and he would have closed a contract with me on the spot. Of course such difficulties as terms he has got to be talked into.

I hope you are enjoying the bad "grub" and the "two-for-one." I will go to Dolmenico's to-night and eat a double sized dinner, so that you can imagine you have had part of it.

I enclose you the latest emanation of the Engineering Department. It is a most beautiful piece of blue printing, and will no doubt go a long way towards cheering you on in your



1883-09-20

3

Lonely way in Shamokin.

Yours very truly,

1883-09-20

Shenokin

Sept. 20th, 1883.

Thomas. A. Edison, Esq.

Weyers National Hotel,

Shenokin, Penna.

My Dear Edison:-

Since writing to you this afternoon I have seen Solder, and he says that he has tested the 300 light machine. He ran the armature at 1100 revolutions and got 200 amperes out of it at 113 volts. The armature was perfectly cool at the time he left the shop to come up to see me, and the machine had been running <sup>1</sup> 2 hours. He seems highly elated over the result of the test, as he says it has come out exactly in accordance with his calculations.

Yours very truly,

1883-09-21

Brockton

Sept. 21st. 3

M. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Your two very lengthy letters of the 18th. and 20th. came duly to hand.

With relation to the extra tubes desiradete be laid by Mr Garrison in place of the pole lines proposed to be put up and provided for in his contract with me, I have under instructions from Mr Jenks ordered the Tube Company to lay 2000 feet of tubes in such streets as Mr Jenks may indicate. I have also ordered from Mr Krugosi, at the instance of Mr Jenks, 30 lengths of two wire service tubes for use at Brockton. I understand that these were ordered on your suggestion. In your letter of the 20th. you says it is desirable to use mostly three wire service, but inasmuch as the order has been placed for two wire service it is impossible to cancel it without considerable loss to the Tube Co. or Mr Garrison. I think the matter had better stand as it is at the present time, namely, to use two wire service as much as possible.

The connections devised by Mr Johnson have been ordered from Hermann & Co. and will be sent forward to you as quickly as

possible. The feeder safety catches have also been ordered for you and these will be forwarded as quickly as they are turned out. The switches asked for in your letter of the 10th. have also been ordered. The feeder indicators are also being pushed forward as quickly as possible and will be sent to you at the earliest moment. The three house changing switches which you refer to were ordered, but the order was subsequently cancelled, and the switch designed by Mr Andrews will take its place.

With relation to Lawrence, the first part of my contract, known as Order No.1, and which I am now putting in, calls for two 400 light machines, later on I am to put in two more 400 light machines, the "K" machines which they now have acting as a spare. If they want 200 light machines instead of "K" machines they will have to buy them. I am writing to Mr Lord on this subject by this mail.

Your report on his wiring corroborates what I have heard from other sources. I will go into the question of the switches and wiring required at Lawrence by you and have the thing fixed up so that you will have no trouble when you come to do the work.

I cannot understand why in one letter you suggest the use of two wire service and in the next of three wires. Acting on your first letter as above stated and under Mr Jones orders,

1893-09-21

3

we have ordered 25 or 30 lengths of two wire services, and propose using the tubes which were sent on for three wire services to extend the system as above referred to..

The reason that things are shipped to Mr Rich is that he pays the bills. I should imagine you could easily arrange with him what cases you are to open, inasmuch as almost all the stuff that comes from Bergman & Co's is for your use.

Exact account should be kept of the time and material used by Johnson in wiring the various houses that he is engaged on.

Very truly yours,

*Lab.*

*Dynamos*

1883-09-21

Sept. 21st.

3

Comitato per le applicazioni dell'elettricità Sistema Edison,  
via Manzoni, 12 A,  
Milan, Italy.

Dear sirs:-

Referring to your several cables and my cables thereto confirmed elsewhere, I beg to inform you that the reason that the 400 Ampere dynamo (they are known as the "H" machine) has been ready to ship for some weeks past. The steamer which should have taken it ran aground on the Long Island shore and has only been got off within the last few days, and it is now discharging its cargo preparatory to taking a return cargo for the Mediterranean. Immediately this or an earlier vessel sails, I will advise you of the shipment of the machine.

With relation to a "C" dynamo, I have several in my shop practically completed, but it will take me some forty days to get an *Armington* engine to attach to one. I therefore cabled you that I could ship one forty five days after order if there was a steamer sailing, and my price for same would be \$0,250., free on board in New York, payment to be made here when dynamo is completed.

At the request of the Ansonia Brass & Copper Co. I added

11883-99-21

to my cable that they desired payment for wire ordered by you on shipment in New York. They will sell you the wire at the same price which they quoted to the Paris Company, namely, 27 cents per pound, and your bill will amount to about \$2,870. In consideration of paying cash in New York, they will allow you a discount of one per cent. This is precisely the arrangement made by me on account of the Societe Electrique Edison, when they were ordering wire from the Ansonia Brass and Copper Co.

Referring to your letter of the 4th September, I have ordered the circuit breaker and uprights for you as requested therein. They will be shipped from here in about ten days.

We have now made a new machine giving 100 lights, and which I shall be glad to sell you in quantities of not less than five (5) for \$400, a machine, F.O.B. New York, payment to be made in New York on presentation of the invoices and bills of lading to your agents here. We are now making a 25 and 30 light machine and also a 200 and 300 light machine. Our experiments on these machines are practically completed, and as soon as we have models out we shall be glad to quote prices to you for same.

We have written to Mr. Jones with relation to the new recording amperometer. We have not turned out any new meters, the only alteration being a cheapening of the case, which is now made

1883-09-21

made of tin instead of cast iron.

We have ordered for you the 2,000 lamps requested, and they will go forward in the course of a week or so.

Our impression is that your orders should come through the Societe Electrique Maison, of Paris. Will you please communicate with them on this subject and advise us with relation to same.

Yours very truly,

*T. A. J.*



1883-09-21

Sept. 21st.

3

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

Referring to our cable correspondence elsewhere con-  
firmed, patent No. 25 is of too great importance in this country to  
allow of being dropped in Europe. It covers the fundamental  
principles of our automatic regulation, and under the circumstances  
our Company here could not give their consent to the dropping of  
the patent.

Very truly yours,

Tak f

1883-09-21

Sent. 21st.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

With relation to cables confirmed elsewhere, I beg to inform you that the prices given by me for fibres were in accordance with instructions which I had received from the Edison Lamp Co. Two or three days later, after talking it over with Mr. Upton, it was arranged to quote a lower price. When your letter came to Insull stating that Upton had given you a price lower than that mentioned by me or the Lamp Factory, I at once communicated with the Lamp Factory, and decided, after a consultation with them, to send you the cable above referred to.

As to the drawings for the 25 and 50 light dynamos, although the experiments on these machines have been made, we have not as yet got the models out, but we are expecting to get them out in a week or two and immediately this is done drawings shall be sent to you. The drawings of the 100 and 400 light machines will, I think, be sent to you by Tuesday's mail. The changes at the Machine Works have caused some delay in getting out these things, which you must accept as our apology for not sending them to you

1883 09 21

2

earlier.

We yesterday tested the 300 light machine, which gave 300 amperes at 112 volts and the armature running at 1100 revolutions. This is a machine with one pair of cores and will be sold for somewhere about \$1,000. We hope to send you drawings in about two weeks, or may be a little earlier.

I cabled for your proxy for a meeting <sup>of the</sup> ~~of the~~ Light Company on the 24th, September, which meeting is to vote on ~~an~~ an increase of the Company's stock from 2720,000. to 31,000,000. Thinking that the proxy would not reach New York in time I cabled you this morning to sign a Power of Attorney authorizing me to vote your shares at any meeting of the Light Company, and requesting you to have Consul Walker confirm signature, so as to enable me to go on your Power of Attorney. I shall hope to get your reply to-morrow.

Very truly yours,

*T. A. B. I.*

1893-09-21

Sept. 21st.

Deutsche Edison Gesellschaft,  
96 Leipziger Strasse,  
Berlin, Germany.

Dear Sirs:-

Referring to our cable correspondence elsewhere confirmed, I beg to advise you that your cable to me of the 14th, September was unintelligible, and I cabled you to that effect on the same day. I have no cable at this writing and am anxiously awaiting receipt of your letter explaining your desires in relation to 100 light dynamos.

I have ordered for your account a 13 x 13 engine in compliance with your cable to me of the 16th. I am expecting to send you foundation plans by the next mail, at which time I hope to be able to advise you at what date the engine will be shipped.

With relation to the 25 and 50 light machines, my experiments on these machines have been finished, and I will push forward the models as quickly as possible. Immediately they are ready, I will ship them to you and advise you of same.

Very truly yours,

*Edison*

1783-09-21

Sept. 21st.

3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

Your postal of the 18th. inst. came to hand this morning.

The small engine, that you have, was to be used to run the "K" machine now used in your station, and my contract does not call for the providing of an "H" machine for this purpose.

I can supply you with two 200 light machines in the course of about three weeks or a month. meantime I shall be very glad to loan you two old "H" dynamos, providing you will pay the freight on some each way. If you decide to use two dynamos on the small engine you now have, I presume it will be necessary for you to get another pulley, as if your <sup>1</sup> 2 x 10 engine is of the same construction as those we ordinarily use, it has only one pulley on. Will you please let me know your wishes in relation to this matter?

It is very desirable that you should order from us sufficient service tubes to connect the houses, which you are now wiring, on to the mains. Will you please send me a general order to supply these, as I think it would be better to leave it to the Electric Tube Company's option as to what they should send to Lawrence for this purpose, so as to obviate the delay consequent

1973-09-21

2

Upon sending an order for such services that you may require put in. If you will please attend to this matter immediately it will greatly facilitate your work, as the services can be laid while the mains and feeders are being put in. If this course is pursued the expense will be less than if the services are left until the whole system is completed.

Mr. Rich writes me that it is desirable that we should put in the foundation for the 14 2 x 12 engine and the two <sup>1</sup> "H" dynamos, which come under Order No. 2, at the present time, in order to save us expense when filling your second order. I presume there is no objection to our pursuing this course, providing that we carry the expense of this work until such time as you should give us an order to finish the whole of the work specified in our contract. Can you give me any idea as to when you are likely to order the completion of the plant, as I am at present out of "H" dynamos, and would like to know when you ~~xxx~~ will probably call on me for them for this purpose.

Very truly yours,

*John I.*

P.S. At this writing it is impossible for me to give a firm price for the 200 light machines, but they will probably cost about \$700, each, but ~~xx~~ as to this I cannot tell at the moment.

1883-09-21

3

as I have not got out my models at this writing.

Battery, St.

1883-09-26

Sept. 26th.

3

Paul D. Nyor, Esq.

Empire House,

Akron, Ohio.

Dear Sir:-

I have your favor of the 24th. inst., and hope you will be able to capture the hotel man who has gone wrong on "storage batteries".

On Saturday night last we started up at Shemokin. Mr Edison returned this morning and speaks very highly of Shemokin as a place for lighting and the great possibilities of making money there.

On Monday night we shall start the Brooklyn station and a week or two after the Lawrence station. So you see things are progressing pretty lively up here.

I hope you are feeling better, and would suggest that if you are at all sick that you should slacken up a little on the work.

Very truly yours,





1883-09.56

Sept. 28th. 3

George W. Bliss, Esq. General Supt.  
Chicago, Ills.

Dear Sir:-

Referring to your favor of the 17th. inst., which would have had my attention earlier but for my absence from town at Shanghai, I beg to state that the gentleman who reported to me about the Palmer House was a Director of our Company for two years, and thoroughly understands the difference between an arc and an incandescent light, and he positively states that our lights go out quite often. Inasmuch as he boarded at that hotel for some time, he must have had ample opportunity of knowing exactly what occurred.

Yours truly,

*Laing*

1873-09-26

Sept. 26th.

3

W. J. Bull, Esq.

18 Market Street,

Harrisburgh, Penna.

Dear Sir:-

*Suddenly*  
I had to leave Harrisburgh to go to Brockton to start a station there. The Shrewsbury station was started on Saturday night. ~~but~~ I think you had better wait about ten days until they get some connections connected and then you might go up there with your friends and see how the thing runs.

Very truly yours,

1583-09-26

Sept. 28th.

5

W. D. Rich, Esq.

Caro Nelson Electric Tr. Co.

Lawrence, - Mass.

Dear Sir:-

Mr. Edson has just returned from Shamokin and reports the starting of the station there in good style. He is very much pleased with everything there, and says that he looks forward to the Shamokin station being very successful. He wished me to draw your attention to several points, which he made a note of while in Shamokin. He says that the dynamo should be leveled so that the <sup>back to</sup> the <sup>the</sup> axle will not run to one end. When water piping bearings, he thinks you should put an extra sock so that a rubber hose 4 inch in diameter can be put on in addition, so that if the oil cup is taken out the hose can feed water right into the bearings. He thinks that the pump should be so arranged that it can take steam from either boiler, (where more than one boiler is used) at Shamokin it was only possible for the pump to take steam from one boiler.

Yours Truly,

1883-09-26

Sept. 27th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Referring to your undertaking to dispose of the bonds of the Shenokin Company, I shall be glad to hear from you as to exactly what arrangements you have made for the disposition of those bonds, inasmuch as it is my desire to make an immediate settlement with the Shenokin Company.

Yours truly,

Talbot

1583-07-26

Supt. 25th. 1883.

Gustavo Soldan, Esq. Supt.

104 Second Street, City.

Dear Sir:-

If it is not objectionable I should like to have an extra hole on dynamo bearings an inch or so from the oil cup with a screw plug for passing water to bearings through a flexible tube, and thus render it unnecessary to unscrew the oil cup in case it should be thought desirable to use water on the bearings to prevent heating.

Yours truly,

J. L. G.

1883-09-26

Meters

Sept. 26th. 3

Messrs. Hermann & Co.

203 Avenue N, City.

Dear Sirs:-

Do not tie a knot in the flexible cords inside of the meters in future. You have been told of this twice. The copper wires attached to the wires in the 41 light meters are too long. I think you should cut off about  $\frac{3}{4}$  of an inch, but you can find the absolute length by testing. The wooden plugs inside meters are japanned wet and stick so that we cannot pull them out of the meters. They plugs should be japanned and dried before putting in.

Yours truly,

Za, E.

1883-09-26

Sept. 26th.

3

J. U. Mackenzie, Esq.

Care Times Telegraph Co.

Temple Court, City.

Dear Sir:-

Can you give me the recipe for the duplicating ink?

I want to get some made for office use.

Yours truly,

Tall

1883-09-26

Electric Pen

Sept. 28th.

3

John P. Rogers & Co.

62 India Square,

Boston, Mass.

Dear Sirs:-

I have not got on hand this moment the recipe for making my duplicating ink, - but I have written to the assistant who used to make it for me to see if he has got a copy of the recipe. Immediately I hear from him I will communicate with you.

Your letter has remained unanswered since its receipt, owing to my absence from the city.

Yours truly,

Yale



1883-09-26

Sept. 26th.

3

J. L. Green, Esq.

Tahoe City, Lake Tahoe,

Placer Co. Cal.

Dear Sir:-

Referring to your inquiry as to motors, I beg to state that we can furnish you with a motor, but I do not see exactly how you could use it, as you say nothing about where you proposed getting your electricity from to run the motor.

Yours truly,

*Laah*

1893-09-26

Ore Milling

Sept. 26th.

3

Franklin Mallon, Esq.

115 West 5th. Street,

Leadville, Col.

Dear Sir:-

Referring to your favor of the 16th. inst., Mr. Edison desires me to state that he has not got a machine which will separate oxide of iron due to roasting iron pyrites. His machine only separates magnetite, but undoubtedly such a machine as you desire could be designed if the business promised to be of sufficient magnitude to justify of the work.

Yours truly,



1883-09-26

Sept. 26th.

William F. Brewster, Esq.,

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

Your letter of the 23rd, inst. came to hand this morning.

I am very sorry that I did not see Captain Hoffinger. I am doing nothing about canvassing New Orleans. Will you please find out from Captain Hoffinger exactly what he expects done in the matter, and let me hear from you on the subject.

I trust that you will be successful in putting through the St. Louis Company. For sometime passed we have had draughtsmen engaged upon the detailed drawings of the station there, so that immediately the matter is closed up we can proceed with the work.

The Louisville map is a very heavy one to make, but I am promised it in about five or six days, and I shall then want some lots looked up for central stations.

Nothing has been done about Newell's Park lately. I will look the matter up and see that it is pushed.

We can take care of all trouble from water or other causes at New Orleans.

Yours truly,

L. A. J.

1883-09-26

Sept. 20th.

3

C. P. Britton, Esq. Secty.

Dept. Public Charities & Correction,

66 Third Avenue, City.

Dear Sir:-

Referring to your favor of the 25th. inst., our engineer is busily engaged in making the plans and estimates for lighting Hart's and Ward's Islands, and we shall hope to have them in such shape as to be able to send them to you in the course of a few days.

Very truly yours,

Lal.

1883-09-26

Sept. 26th.

3

Charles Hatchelor, Esq.

Paris, Franco.

My Dear Hatchelor:-

Your letter of the 11th. came duly to hand.  
We cabled to you for \$2,000. because we were in a H---  
of a box, and bills were on the way equalling that amount.  
Since the money was received, however, we have given the Societe  
Industrielle credit for the overcharge on the fibres, which leaves  
only about \$200. in their favor which cannot be considered any  
great amount, as the <sup>Account has</sup> ~~amount~~ run the other way on my books  
for months at a time.

Very truly yours,

*Yale*

1883-09-26

Sept. 20th. 3

Henry A. Clarke, Esq.

Erie, Penna.

Dear Sir:-

Your favor of the 11st. September has been referred to me for reply.

The estimate for the installation of a central station plant at Erie is put in as a whole and is not to be accepted in lots. The tender is made in one account, the items being simply given for your convenience and guidance as to what makes up the estimate. If the Erie Company require any items struck out, I shall be very glad to consider the matter.

It will be quite impossible for me to get to Erie to attend the meeting. When your Company is organized and they are prepared to make a contract for the installation of a plant, my private Secretary, Mr. Insull, will go on to close the matter with them, unless it can be done by correspondence.

Very truly yours,

L. A. J.

1883-27-26

Sept. 26th,

3

S. C. Lynch, Esq.

60 Washington Street,  
Chicago, Ill.

Dear Sir:-

Referring to your favor of September 24th., I shall be  
very glad to look into the matter of the Persett Conduit, and will  
talk the matter over with Mr. J. R. Burdick when he calls to see me.

Yours truly,

*W. A. J.*

1883-09-26

Sept. 26th.

3

C. C. Sims, Esq. Supt.

Armington's Sims Co.

Providence, R.I.

Dear Sir:-

Would it not be a good idea to have two extra valves and rings for each of our central stations? If so, would the pistons fit? How about ~~the~~ extra Rabbit shelves for all engine bearings, concerning which I spoke to you?

Yours truly,

*John J.*



1883-09-27

Sept. 27th.

3

H. M. Doubleday, Esq.

Edison Exhibit, Louisville Exposition,

Louisville, Ky.

Dear Sir:-

Will you please supply me with the information which  
Mr. Clark desires in relation to the cards sent by you, returning  
the cards at the same time.

Yours truly,



Enclosure.

1883 09:27

Sept. 27th.

Charles Hatchelor, Esq.

Ivry-sur-Seine, France.

Dear Sir:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I was thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Very truly yours,

*Yale*

1883-09-27

Sept. 27th.

3

Compagnie Continentale Edison,  
Paris, France.

Dear Sirs:-

Your favor of the 10th. Inst. came duly to hand, and in reply I would beg to state that it seems to me that the action of the Russian authorities with regard to Set No. 2 places your Company in a position to remedy in Russia the mistakes which have been made in other countries with regard to this important patent, by discarding the great mass of unimportant matters and confining the case to the points which experience have shown to be of great value. I consider this point to be:-

First. The placing of an incandescing conductor in an exhausted chamber made entirely of glass with leading in wires connected into the glass, and

Second. The driving out of the incandescing conductors of the occluded gases by raising said conductor to incandescence during the operation of exhausting the lamp globe.

The specification describes lamps of carbons as well as those of metals, and care should be taken to make it clear that the points are intended to be covered without regard to the material

1883-09-27

23

of which the incandescing conductor is made. The matter I think should be made the subject of one division. If a second division is decided upon, the motor connections shown in figure 73 should be made the subject of it since. I consider that arrangement as the next in importance.

The following should also be covered. The arrangement of a motor shown in a shunt around a definite resistance in the main line and the use of a compensating resistance in the circuit with the coil. The motor shown in figure 74 could also be included in the case.

I see nothing further of any considerable importance in the case which could probably be patented in Russia;

Yours very truly,

*L. A. J.*

1883-09-27

Sept. 27th.

8

L. W. Serrell, Esq.

140 Nassau Street, City.

Dear Sir:-

Referring to your letter of the 23th. inst., will you  
please let me know what the first account in the Nicholson case is?

Very truly yours,

J. A. J.

1883-09-27

Sept. 27th.

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

I am in receipt of your favor of the 24th; August,  
and have cabled the Milan Company to send me a cable remittance  
for \$3,000. to cover the amount of my account against them, less  
the four regulators and the Armstrong & Sims engines. I have not,  
however, at this writing received any reply, and accordingly  
cabled you to-day to this effect, as confirmed elsewhere.

I have received from the Milan Company an order for  
lamps. I think it would ~~certainly~~ facilitate matters, and be  
certainly a convenience to myself, for all orders of the Milan  
should come through the medium of your office. Will you please  
endeavor to arrange this for me, and greatly oblige,

Yours very truly,

*T. A. Edison*

1883-09-27

Sept. 27th.

3

W. L. Garrison, Esq.

P. O. Box 3647,

Boston, Mass.

Dear Sir:-

Mr. Edison and myself will leave for Brockton on Saturday night, it being Mr. Edison's intention to start the Brockton station on Monday night.

I propose to return to New York on Tuesday, and if you can conveniently arrange matters so that I can bring back with me a check for \$15,000., it will be a very great convenience to us.

Very truly yours,



1883-09-27

Sept. 27th.

Henry A. Clarke, Esq.

Erie, Penna.

Dear Sir:-

Your letter of the 24th. September has been forwarded to me at the above address.

If you have any enquiries to make about my estimates and will address them here, you will always get a prompt reply. I stay such a short time in a place that it is seldom that you can reckon on catching me.

As I wrote you yesterday, the bid made to you is made as a whole, and I should hardly feel disposed to have it cut up, although of course I should be glad to consider any proposition that the Erie Company may have to make. Our experience, however, in doing this has so far been very bad. At Shamokin, where the local Company undertook to do a great deal of the work themselves, we had a very great deal of trouble, and our Superintendent had to go there to superintend the work, notwithstanding it was the local company's place to do it. The delay in consequence of the course they pursued was very great, and decided me to refuse to take contracts in the future, unless the whole of the work was left for me to do.

Very truly yours,

*W. L. G.*



1883-09-28

Sept. 28th.

3

Societe d' Appareillage Electrique,  
Geneva, Switzerland.

Dear Sirs:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Very truly yours,

G. A. K.

1893-09-28

Sept. 30th.

3.

German Edison Gesellschaft,  
93 Leipziger Strasse,  
Berlin, Germany.

Dear Sir:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of those.

Very truly yours,

1873-09-29

Sept. 20th.

3

Gessers, Harris & Robinson,

Room 3, Trust Co's Building,

Hartford, Conn.

Dear Sirs:-

I have your letter of the 27th. inst., in reference to the Hartford and Southington estimates which I promised to send you on the 20th. My engineer, Mr. Campbell, has been ill for the last four days and is still confined to his bed, and it is impossible for us to tell when he will resume work. His absence from the office was the cause of the estimates not having been forwarded to you. I regret the circumstances exceedingly, but as you will see it was a matter over which I had no control, and I may add was totally unlooked for when I made the promise to send the estimates to you on the 20th.

I am obliged for the information you give in reference to Bridgeport, and will refer that matter to Mr. Hutchinson of the Insulated Company.

Very truly yours,



Private Secretary.

1893-09-29

Sept. 29th.

3

Friend Conkling:-

I am very desirous of obtaining a contract to light one or two of the City Institutions where I am certain I can effect a considerable saving to the City and give better satisfaction.

Their gas system being especially defective on Hart's and Ward's Islands, for which I have made a tender. Would you object to giving me a letter of introduction to Mr. Ross one of the Commissioners having such lighting in charge. With a statement that we are reliable people, our statements are to be relied upon and that we will undoubtedly perform our work in a satisfactory manner. Of course they may be reasonable why you would not like to do this, if so all right.

Very truly yours,

1872-09-29

Sept. 29th. 3

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

I regret to say that through the illness of my engineer, Mr Campbell, who has been off duty for the past three days, and it being impossible for us to tell when he will again report at the office, the estimates for Newburgh have been delayed. I am doing my best to get them out for you and will send them at the earliest possible moment, but with this explanation you will no doubt recognize the circumstances we are in and the great pressure under which we will have to work in order to keep pace with our business during Mr Campbell's absence.

Very truly yours,



1883-29-29

Sept. 20th.

Paul D. Dyor, Esq.

Empire House,

Akron, Ohio.

Dear Sir:-

I have your favor of the 17th. inst. acknowledging receipt of the report blanks and books.

In reference to the latter, I did not intend to alter the form of your canvassing, and you can use these as blank books if you choose, but in sending them to you I thought you would probably be able to utilize them to advantage by entering the rights on the books first and copying them on to the form afterwards. You can, however, please yourself.

Very truly yours,



(883-10-01

October 1st.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

I have your letter of September 28th. in reference to details of building the central station at Newburgh. Mr. Campbell, my engineer, who compiled the estimate for this building, is still confined to his bed, consequently I am unable to send them. The additional estimates are also being delayed for the same reason but all of them will go forward to you at the earliest possible moment.

Very truly yours,

Tag  
Y

1883-10-01

October 1st. 3

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

Mr. Edison and Mr. Insull are both in Brooklyn and will probably not be back until the end of the week. Campbell is still "laid up", and I have got my hands so full that it is impossible for me to touch the Newburgh estimates, at least for a day or so. I will do all I possible can to send them to you, but you see the fix I'm in and the difficulty of meeting your requirements with the despatch which generally characterizes our business.

Very truly yours,

*Ans*



1883-10-02

October 2nd,

3

Samuel Insull, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Insull:-

I have received all your numerous communications, and this morning went down to Hermann's to see about pressure indicators and meters.

I find without waring Andrews that he requires six pressure indicators of the new style or five of the old style, as he took one of the old style with him when he was here. I ascertained this from a letter which arrived a day or two ago and which was among the bundle you gave me. Klein or somebody down there mixed our meter orders all up, but fortunately I got there before anything serious had occurred. As it is there must be returned from Brockton one 50 light meter. He sent five 0 light meters too many to Shamokin and he sent ten 0 light meters in excess of our order to Jawronco. I will have all those returned according to their instructions at their expense. Klein at first thought we had mixed our orders up, but upon analyzing it thoroughly he found that they had made the mistake themselves, and, consequently, walked into a "shipper".

I have seen Bradley this afternoon and he goes to Brockton to-night. I have given him two hydrometers and he is getting all the tools necessary for finding out the bugs in the conductors, from Chinnoek. He is going to Brockton by rail. The Shamokin hydrometers were sent some weeks ago.

Referring to the ~~order~~ <sup>order</sup> ~~for~~ <sup>for</sup> ~~switches~~ <sup>switches</sup> for Brockton, I was not asked to order 12 large plug switches for feeders by Sprague. He stood beside me while I wrote the orders for material which he required, and those were not mentioned. I, however, find that there were only 8 instead of 12 (as you stated) of the old style feeder switches ordered for Brockton, and have consequently ordered 10 of the new style plug switches from Bergmann to be shipped at once.

I have ordered 100 Johnson connections in accordance with your letter, and have given proper instructions as to the shipping of 50 of them. Bergmann has on hand at the moment 50 of these connections from the last lot ordered. These go forward to Lawrence at once.

In reference to test bank switches, Bergmann told me that those were sent forward with some other material to Sprague's address on Saturday. On Monday I told him to send two more, as they had probably gone astray, although it seems strange how they

1883-10-02

3

could have done so. I trust that by this time they have been received.

I received your Godsend in the shape of \$5,000. and have had same placed to our credit without meeting any opposition at the bank.

I have had all the baby stuff packed in ice and forwarded to the address you gave me. It will be a "cold day for you" when it gets there.

Referring to the amount which I placed in the Fall River estimate for "Tools" for repairs to underground conductors", at the time I made up the Fall River estimate I had only one bill from Russi for tools sent to Brockton, and I was under the impression that this included all the tools which had been sent there. I should, however, have looked more closely into the matter and I would have soon when I made the mistake. Can we not supply tools to the amount of our estimate for same, and if they want more they can purchase them? I say this merely as a suggestion to try and help myself out of the scrape, but privately my opinion is that we will have to supply the whole lot for about one half the price, and that it is through a "damned bull" of mind that we have got to do it.

1883-10-02

I saw Mr. Johnson this morning at Bergmann's, and I told him about the success that attended the starting of the Brockton station, and also said that you informed me that Rich deserved tremendous credit for the work he had done. Mr. Johnson wanted to know where Sprague came in and Bergmann told me to tell you-- "I will never mind what he told me to tell you, it would sound much better over a telephone!"

I have not yet heard of your closing the Fall River contract, but I hope to be made aware of the fact before going to bed to-night.

Everything here is going on all right and there is nothing special to bring you back if you are not fully prepared to come.

Hughes just came in and says he is going to stay right here until he gets the Newburgh estimates. I have not had a chance to touch them, and I do not know that I should care about doing it if I had. Campbell has the matter partly in hand, in fact nearly finished it, and if I take it in hand now it will be necessary for me to go through it right from the start, and my hands are too full to attempt anything of that kind. I expect Campbell will be here in a day or two. I wrote to him last night and practically told him that he must come soon, notwithstanding

1883-10-02

5

the advice I gave him towards the end of the letter to the effect that he should not go out of the house until quite well. I tried to convey to him the idea that the Department could not run very well unless he was there himself or else keep ~~somebody~~ of these under him posted in such a manner about what he was doing as to enable them to know a little about the business in his absence. As it is now he carries most of the information which I want to get at, such as details of the construction of the station, in his head.

I will get the bills of lading from Hayward, Perry & Franklyn to-night, have been unable to obtain them before that ~~time~~ will have the money in the bank to-morrow morning.

I am delighted to hear about the success you have met with in Brockton.

I will go thoroughly through the Lawrence orders, and see that there are no "hitches" when the time comes for starting up there.

I enclose two letters from Mr. S. J. McCutcheon. Upon the arrival of the first one, which is the double pagod one, I sent him a note saying that Mr. Edison was in Brockton and giving him Mr. Edison's address. The second one is a reply to my note, above your signature. I do not know whether they are of any

1883-10-02

6

great importance or not, and as I have no means of finding out,  
I presume the best thing to do is to send them to you.

Very truly yours,

*Gale*

1883-10-62

*Telephone - Foreign*

Office of the

Edison Telephone Company of Europe, Limited,

New York, October 2nd, 1883.

To the Directors of the Edison Telephone Co., of Europe, Limited,

Dear Sirs:-

Referring to your letter of September 14th., in which you authorize me to settle with Colonel Gouraud on the best terms possible as to the division of the 175,000 shares of the Edison-Gower-Hell Telephone Company of Europe, Limited, I beg to say that I have fully discussed the matter with Colonel Gouraud with a result that he is not satisfied with any other than an equal division for the reason set forth in his letter to this Company, dated July 30th. (Extract Annexed)

I am myself agreeable to settling with Colonel Gouraud on that basis, but I find that I am personally interested in some of the shares that he will receive, arising out of the fact that he and I jointly contributed in the sale to the Edison-Gower-Hell Telephone Company of several countries which did not belong to the Edison Telephone Company of Europe, Limited, namely, Denmark, Sweden, Norway and Portugal, and because of this personal interest I am unwilling to take the responsibility of alone settling with Colonel Gouraud as authorized by your letter above referred to. I have therefore to request that you will be good enough to sign the enclosed letter, if you approve of same, and return it to me at your early convenience.

*W. G. Dickinson*

1883-10-02

October 2nd.

Paul A. Dyer, Esq.

Equity House,

Akron, Ohio.

Dear Sir:-

I am in receipt of your several favors of the past week, and I am sending to your Address twelve new catalogues, <sup>Isolated</sup> and I would impress upon you the necessity of using those very judiciously, as they cost 34 cents apiece.

Mr. Stuart has been here for the past week obtaining information, and I think we have satisfied him on a great many points about which he was in doubt, and I have reason to believe that affairs in Ohio will be pushed to more advantage now than they ever have been before.

We are much obliged for the way in which you keep us posted as to the workings of rival companies. I think that the wave you speak of will soon commence rolling through Ohio, and it is already assuming very fair dimensions in the East, and we anticipate to do good work through Ohio in the Spring. It is rather late to commence work there now, as in a few weeks frost will set in.

Very truly yours,





1883-10-02

October 2nd. 3

P. B. Shaw, Esq.

Williamport, Maine,

Dear Sir:-

I am in receipt of your favors of the 28th, ulto., one addressed to Mr. Wilson and the other to myself.

In reference to the former I would say that we had no such arrangements with Mr. Hullen as you mention. We were to run the station for thirty days after it was ready to supply light; we made no agreement to run it for thirty days after a new wire was supplied. I will, however, attend to this matter when I meet you on the 8th, inst. I can forsooth nothing now to prevent me from keeping this engagement.

Very truly yours,

*S. J.*  
7

1883-10-02.

October 2nd.

A. Stedart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

I am in receipt of your favor of the 30th ult., and have to-day sent you under separate cover the chart of Highlandtown showing the total number of lights in the district marked off, the average burning of which amounts to 173 lights for four hours and fifty nine minutes.

I also sent you a form of agreement between ourselves and the local company. In each case the payments are as follows:-  
25<sup>0</sup> of the total amount of the contract upon the signing of the agreement; 30<sup>0</sup> of same when the installation is ready to supply light, and the remaining 45<sup>0</sup> after the installation has been in condition to supply light for thirty days.

Trusting that this will meet with your requirements, I

am,

Very truly yours,



Enclosure.

1883-10-02

October 2nd.

3

John R. Campbell, Esq.

care P. B. Shaw,

Williamsport, Penna.

Dear Sir:-

I am in receipt of your several favors in reference to permits and concessions for running our lines in Williamsport.

I consider that you made a mistake when you first went to Williamsport in not finding out definitely what the idea of the Williamsport Company was in reference to your obtaining these permits. As it is they first decided to obtain them themselves, and after delaying you in Williamsport reconsidered the matter and allowed you to go ahead with the work which you were sent there to do. This matter will prove very expensive to us in comparison with what it should have cost had you gotten through with it in a reasonable length of time.

In future it would be well for you to sound local authorities to better advantage than you have done in this case and try to obtain their ultimate ideas from the start, as we cannot afford to allow you to wait in each place an excessive length of time, in order to allow the companies there to change their minds a half a dozen times.

I will send you some money either to-morrow or the next

1883-10-02.

2

day, with instructions as to where you are to go next.

Very truly yours,

Yale

1883 To 562

October 2nd.

C. H. Campbell, Esq.

White Plains, N. Y.

*My Dear Campbell!*

I got your telegram this morning telling us to make allowance for piles in the construction of the Fall River building. Inasmuch as the ground is of rock, we have made allowance for the necessary excavations, and it will hardly be possible to drive piles through such a substance.

Hughes is still awaiting additional estimates for Newburgh. These I am unable to send him as I have not got a map which is properly marked. You will remember that one of the fenders was cut <sup>off</sup> a certain street and run around towards the top of the map.

Harris & Robinson continue to "kick" about Southington. I hope to send them Hartford to-morrow.

Mr. Edison and Mr. Insull are both away and will not be back until the end of the week, and I have no time to prepare estimates.

I have got all the plans of the West Shore & Buffalo buildings which we are requested to bid for. The Ohio business still remains in abeyance.

1883-10-02

2

I merely send you this to let you know how we are getting along without you and to illustrate that your very valuable services are missed. I hope you are much better and that nothing serious has developed in your case, and would impress upon you the advisability of not coming out of the house too soon, as this is sometimes a fatal mistake made by your fellow invalids.

Drop me a line and let me know how you are getting along.

Sincerely yours,

Alfred

1883-10-03

October 3rd.

3

W. E. Andrews, Esq.

National Hotel,

Shenandoah, Penna.

Dear Sir:-

Referring to your favor of September 24th. in reference to pressure indicators, I beg to say that I have ordered forward six of the new style pressure indicators to your address at Shenandoah.

Regarding 60 candle power lamps ~~the~~ the local company want any of these they can obtain them by ordering through the Light Company, as you understand all orders for lamps must be submitted through that source.

Very truly yours,



1883-10-03

October 3rd,

3.

C. C. Sims, Esq. Supt.

Care Arrington & Sims Co.

Providence, R. I.

Dear Sir:-

Our office has sent you to-day a check for \$1,875., which you will receive by the express mail as this letter. I have also sent to Edison to-day a note for \$1,875., dated September 22nd. and running three months, bringing it due on the 25th. December. I have requested Mr Edison to sign it and send it to you immediately he gets it, and would suggest that you telephone him about eleven o'clock to-morrow at the Brockton central station, and ask him whether he has sent it to you, and if not, request him to do so immediately. This will insure your getting it.

If you will send me a memorandum of the cost of the discounting, I will send you a check for same.

Very truly yours,





1883-10-03

October 3rd, 1883.

Gustav Solder, Esq. Supt.

104 Goreck Street, City.

Dear Sir:-

The Electric Tube Company will ship you in a day or two  
a U tube junction box to be finished. Please push this through  
with the utmost speed, as the box is for Lawrence and a delay  
would be very serious.

Yours truly,

A handwritten signature, likely of the sender, is written in dark ink. It appears to be a stylized name, possibly 'S. S.' or similar, with a flourish at the end.

1883-10-03

October 3rd.

W. S. Andrews, Esq.

Shawabdin, Panna.

Dear Sir:-

Your letter of the 1st. inst. to Mr Insull, enclosing statement of account, has been received. I will have the latter checked and advise you as to the result.

I received a telegram to-day from Mr. Insull, who is at  
 Brooklyn, stating that he had authorized you to draw on us at one  
 day's sight for \$100. This I presume will straighten out your  
 finances.

The Brockton station was started with great success, and Mr. Innull advises me that everything is perfect in connection with the building.

Very truly yours,

*[Signature]* *Q. Sate*

1883-10-03

October 3rd. 3

W. H. Dwyer, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I beg to hand you herewith an estimate for the erection of a central station plant at Fall River, amounting to \$41,000.00.

You will notice in the estimate that I have covered the point requested by you, namely, that the stack should be put in large enough for the boiler capacity required for 4000 lights.

I have also embodied in the estimate that the water connection is to be taken from the river, in addition to the connection of the station with the street mains.

I further enclose you two copies of an agreement, duly executed by me as Mr. Edison's Power of Attorney, and should be glad if you will return one executed by Mr. Dow, as President, and yourself, as Treasurer, together with a check for \$4,100.00, being ten per cent of the amount of the estimate payable on the contract being signed.

A blue print of Fall River sent you herewith forms Exhibit A to the contract and the estimate Exhibit B. Those two should be attached to the copy of the contract which you retain.

1883-0-03

2

With reference to the details of the work, the roof timbers shall be two inches deeper than those at Brockton, and planned in compliance with the suggestion of Mr. Jerome Gordon. The plant will of the same character as that at Brockton and the work finished off in the same style.

In the blue print of the central station, which I send you herewith, you will notice that the boilers and engines ~~were~~ have been turned around as suggested by you. The space in the boiler room is amply sufficient to enable us to add two more boilers of 140 horse power each. The boilers we now propose to put in are two 73 horse power boilers set in one battery, or, in other words, a double 140 horse power boiler. This is done in order to get a subdivision of the boiler power. Any future extension we would propose installing a single 140 horse power boiler, that is a boiler with one furnace. The total boiler power would then enable you to take care of 3200 lights, then when you require to make a further extension we would take in another 140 horse power single furnace boiler, which would bring your boiler capacity up to 4800 lights. There is plenty of room to do this in the building as at present designed, and the subdivision of boiler power, which you will then have, will be quite sufficient, as with a total plant of 4800 lights you would have what is practically four

1883-10-03

3

distinct boilers to take care of same.

I have given the orders to-day for our material, and the work will be pushed on as vigorously as possible in order to get the installation completed within the shortest possible period.

I will advise you from time to time as to our progress, and will doubtless be able to tell you within a week or ten days the date that we shall commence laying our tubes, which is, as you understand, the most troublesome part of the work.

Very truly yours,

~~W. A. C.~~  
W. A. C.  
by J. D. Atty

Enclosure.

1883-10-03

October 3rd.

3

W. H. Dwyer, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Wall River, Mass.

Dear Sir:-

I enclose you herewith a certified copy of my Power of Attorney from Mr. Edison, which it would be as well for you to file in your office, inasmuch as the agreement with him is signed by me.

Very truly yours,

A handwritten signature, likely of the sender, written in dark ink. The signature is stylized and appears to be a first name followed by a last name, though the specific letters are difficult to decipher due to the cursive style.

1883-10-03

October 3rd. 3

Thomas A. Edison, Esq.

care W. J. Jenks, Manager,

Brockton, Mass.

My dear Edison:-

I enclose you herewith a note for \$1,375, due the 25th, December and in favor of the Armington & Sims Company.

Please sign this and send it to Sims in the enclosed envelope

IMMEDIATELY you get this. Do not fail to do this, as I promised Sims yesterday that he should have it in order to enable him to meet his payroll, which is due to-morrow or the next day.

I have sent him a check to-day for the same amount as the note, and the two together will settle up our Construction Department account with Armington & Sims for last month, in fact will clear up everything with the exception of the large engine shipped to Lawrence Monday morning. I have arranged the date of the note at such a time that I shall easily be able to take care of the payment of same.

Very truly yours,



Enclosure.

1883-10-04

October 4th. 3

Frank H. McComick, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to apologise for not having answered your favor of the 19th. September before this.

Mr Edison and myself have found it necessary to be away from New York so much of late that this, together with some other matters, has entirely occupied attention. I have been endeavoring to go to Sunbury and Williamsport for some time past, but up to the present have found it impracticable. I have, however, made an engagement with Mr Shaw to meet him in Williamsport on Monday next, the 11th. inst., and I will at the same time no doubt have the pleasure of meeting you and arranging with you as to the transfer of the stock.

Very truly yours,

P. D.



1883-10-04

October 4th.

3

Hon. Jacob Hess,

city.

Sir:-

I have the pleasure to enclose you herewith a letter from the Hon. Roscoe Conkling to your good self introducing Mr. Edison to you.

Mr. Edison is absent from the city at the present time, and will not be back until Monday next, I therefore deemed it advisable to forward this letter to you by the hand of Mr. Russell.

On Mr. Edison's return, he will doubtless do himself the pleasure of renewing his acquaintance with you.

Very respectfully yours,

Private Secretary.

Enclosure.

1883-10-04

October 4th. 3

Henry A. Clark, Esq.

Eric, Penna.

Dear Sir:-

I have the pleasure to acknowledge the receipt of your favor of the 1st. inst., and in reply beg to say that we can complete the work at Eric within sixty days after the signing of the contract. You will no doubt appreciate the necessity of closing this matter quickly, if it is the intention of the Eric Company to do anything this year, as very soon the frost will set in and it will be impossible for us to set poles and make other necessary excavations.

Very truly yours,

J. A. C  
9

18831883-10

October 4th.

3

G. H. Campbell, Esq.

White Plains, N. Y.

My Dear Campbell:-

*Not*  
I have ~~received~~ <sup>not</sup> received any answer yet to the letter I wrote you the other day, and I presume you have either been too ill or not had time to write me.

I got the Newburgh-Business fixed up with Hughes this morning without sending any other estimator. *Other than Camp Sum. Bldg. by letter* Other matters in relation to estimates are still "hanging on", and there is one point which Hughes wants very badly that I am unable to give him, and I wired you about it yesterday, namely, the details of the building. The Newburgh Company desire to have a specification of the building you propose to erect for the central station, in order that they may obtain a bid on same from some local builder, who it appears will take the amount of his contract in stock. We should like very much to give this information at the earliest possible moment. The amount you allowed for this structure was \$3,100., the building to be of brick. There are no accessible details in the office, and I presume that you carry this information in your head, just where we cannot get at it. Can you assist us any from where you sit (I hope by this time you are able to sit up)?

1883-10-04

October 4th.

2

I made up the Fall River estimate myself. It is for 3000 lights, with street installation calculated to cover 3000 lights, and the total amount is \$11,100.00. I allowed for freight and cartage \$244., for clerical work about \$400. and about \$973. for the expenses of the electrical, motor and engineering experts, while starting the station. All the other items were made up in the usual manner. This estimate was accepted and the contract closed on Monday, and we are going right ahead with the work. Do you think we will clear expenses on it?

I hope you will be able to come out soon, as things are commencing to "boom", and there are two or three more contracts which it seems to me we are likely to get before cold weather sets in.

Before we "tackle" any new work there are a lot of old matters in the office which I should like to get cleaned up and I cannot do it without your assistance. When do you think you will be able to come back again?

Trusting that you are rapidly progressing towards convalescence, I am,

Sincerely yours,

A. J.

1883-10-04

October 4th. 3

A. A. Cowles, Esq. Secty.

Ansonia Brass & Copper Co.,

10 Cliff Street, City.

Dear Sir:-

I enclose you herewith an order for copper rods to be sent to the Electric Tube Company. These rods are to go in tubes, which will be laid in Fall River, under a contract we have with the Edison Electric Illuminating Company of Fall River.

It is very important that this order should be pushed forward as quickly as possible, as we have but a comparatively short time to make up the tubes and get them laid before frost comes on. We shall therefore be glad if you will make an extra effort to get them out quickly for us.

I will call down to-morrow and show you Mr. Edison's contract with the Fall River Company and give you full explanation as to the matter, which I feel sure will be entirely to your satisfaction, as the parties in interest with us in this matter are of the very best.

Very truly yours,



1883-10-04

October 4th.

3

J. R. Campbell, Esq.

City Hotel,

Williamsport, Penna.

Dear Sir:-

I am in receipt of your letter of yesterday's date, and in reply beg to state that I did not intend my letter of the 3rd inst. to be interpreted as a censure, I endeavored simply to point out the mistake which any one else, placed in the same position, would be liable to commit. I will see that there are no more delays as regards maps, and will also have them properly marked before sending them to you.

I send you by this mail, under separate cover, a map of Lock Haven with the red lines properly shown thereon.

I have your telegram of to-day's date stating that you were compelled to draw at sight to prevent delay, which in this instance is quite satisfactory.

Very truly yours,

J. A. E.

g

1883-10-04

October 4th.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter of the 28th. ulto., and in reply  
beg to state that I will be in Williamsport on Monday next, the  
5th. inst., where I shall have much pleasure in meeting you.

Very truly yours,

S. J.

1883-10-04

October 4th,

3

J.B.A. Edison, Esq.

Care of W. J. Jones, Esq.

Washington, D.C.

My Dear Edison:-

Gouraud has just been in here and is very anxious that the telephone matter should be settled right away. He says that he spoke to you about the <sup>division</sup> of the lower-half stock, and I understand his proposition to be that the telephone company of Europe should take half the stock and he take the other half, on account of the countries he put in under the agreement between you and himself. Will you please wire me instructions in this matter the first thing to-morrow morning, so that I can have the necessary papers prepared. If you will authorize me to negotiate with Gouraud, I will endeavor to bring him down, as considering the dual capacity you hold as President of the European Telephone Company, and a party interested with Gouraud in any shares that he may obtain, I think that you should do your utmost to get as good terms for the European Company as possible, as otherwise the matter might look bad if brought up afterwards.

I got an order this morning for 35,000 lamps for Berlin and 2,000 lamps for London. The first order is in consequence of our reduction in terms, showing the good policy of making the



1883-10-04

3

reduction.

I am very sorry that you did not receive that matter from the printers, but you must blame the express company and not our office, as it was all sent off from here on Tuesday.

Please wire me stating absolutely when you will be back.

I went around to see Mrs. Edison this morning and she seems considerably better. She is going to move this afternoon, and the doctor has undertaken to accompany her, in case of any mishap. I shall wire you to-night stating whether the moving proved disadvantageous to her or not.

I have the honor to be (à la Française), Sir,

Your most obedient and faithful servant,

A handwritten signature, possibly 'S. J.', in dark ink, located below the typed signature line.

1883-10-05

October 5th.

3

John P. Smith, Esq.

143 East 33rd, Street, City.

Dear Sir:-

My house, 25 Gramercy Park, is now empty, and I shall be glad if you will see to the watching of same, and prevent your bill at the above address each month.

Yours truly,

T. A. G.

1883-10-05

October 5th.

3

Friend Beach:-

I send you herewith an interesting article suitable for your columns on "Storage Batteries" written by Mr. Spencer Borden of Fall River, who sent it to me and asked my opinion.

I think it a very correct article and thought possibly that you might like to publish it.

Very truly yours,

T. A. G.  
J.

1883-10-05

October 5th.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

Referring to a cable confirmed elsewhere, I beg to inform you that I wired you with relation to the Arrington & Sims engine at the request of Gov. Howard and Mr. Sims.

They do not understand why you are unable to deal with Arrington, and if your people are really anxious to get the engine, I can make favorable terms here.

Very truly yours,

*Lab*

1883-10-05

October 5th.

3

J. U. Mackenzie, Esq.

400 Vanderbilt Avenue,

Brooklyn, N.Y.

Dear Sir:-

I wrote you sometime ago asking for the recipe for the duplicating ink which we used to make up at Menlo. I have not at this writing received the same, and if you will again so far oblige me I shall be glad if you will let me have the recipe.

Very truly yours,

*Lab*

1883-10-05

October 5th.

3

Mademoiselle,

222 Madison Avenue, City.

Madam:-

If you have a vacancy in your school for a little girl ten years old, Mr. Edison would like to send his daughter as a day scholar.

He desires that she should take lunch with the family.

If you have a vacancy, will you please let me know at your early convenience what your terms would be and how soon you would desire Miss Edison to commence her studies?

Yours very truly,

Ed.  
P.S.

1883-10-05

October 5th, 1883.

Joseph S. Ferroll, Esq.

Southwark Foundry & Machine Co.

430 Washington Avenue,

Philadelphia, Penna.

Dear Sir:-

Your favor of the 3rd. inst. came to hand during the absence of Mr Edison and myself from town. I returned this morning but Mr Edison will not be back until next week.

I regret very much that you should feel compelled to write a letter in the spirit in which you have, and can assure you that the settlement of the matter would have been made ere this had not circumstances absolutely prevented Mr Edison from doing so.

Mr Edison has been away a very great deal lately and so have I, and it <sup>has</sup> so happened that we have seldom been here at the same time and have therefore been unable to discuss the matter of your outstanding claim and arrange ~~for~~ settlement.

At this writing it is impossible for us to <sup>Final</sup> make a settlement, but I can promise to send you to-morrow a note for \$2,000, and possibly \$300. more. The note will be that of the Edison Company for Isolated Lighting, with Mr Edison's endorsement, and I trust that you will take this as an earnest of our desire to make a settlement with you as early as possible.

I shall be glad if you will wire me in the morning sta-

1883-10-05

2.

Whether this will be satisfactory to you.

We have had the engine at Gresham Street ready for you to use for some time past, but so far nothing has been done there with relation to the experiment which you promised to make.

Will you please advise us with relation to this matter, and greatly oblige,

Very truly yours,

S. J.  
P. L.

1883-10-06

October 6th. 3

J. H. Welloy, Jr., Esq., Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I beg to acknowledge with thanks your favor of the 5th. inst. enclosing copy of the agreement between us duly executed, also your check for \$4,100.00, the same being ten per cent of the amount of our estimate.

Very truly yours,

1883-10-06

October 9th.

3

G. W. Rogers, Esq. Vice Pres.

Electric Railway Co. of The U.S.

211 1/2 Building, City.

Dear Sir:-

This will introduce to you Mr. E. A. Pratt of London,  
who is desirous of looking into the matter of electric railroads.

If you have the railway at Henle Park in operation and  
can arrange with him to see it, I shall esteem it a favor.

Very truly yours,

*J. A. L.*



1883-10-06

Middletown  
+ Mr. Schumaker

October 6th.

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

My canvasser, Mr. Dyer, writes me from Akron, Ohio, and says, Mr. Schumaker, the Prohibition Candidate for Governor of Ohio and the largest property owner in the City of Akron, was, when Mr. Dyer first met him, on the point of purchasing a 110 light Brush-Swan plant for his mill and office and intended to use a storage battery in connection with same. Mr. Dyer says that he has demonstrated to Mr. Schumaker the inefficiency of these batteries, and, furthermore, stated that you will find it advantageous to open communication with him (Schumaker) as early as possible.

Regarding the 300 light plant for Middletown for which I was to send you an estimate this week, my own engineer, Mr. Campbell is still confined to the house through illness. I have, however, had the estimate prepared and it is nearly completed and will be forwarded to you on Monday. You will no doubt understand from this that the delay was unavoidable.

Very truly yours,

1883-10-07

October 7th. 1883.

Southwark Foundry & Machine Co.

430 Washington Avenue,

Phila. Penna.

Dear Sirs:-

I received your telegram yesterday, and have the pleasure to enclose you herewith note for \$2,000. of the Edison Company for isolated lighting endorsed by Mr. Edison, who has returned to the City this morning.

Please credit this to the account of the Edison Machine Works.

Very truly yours,

A handwritten signature, possibly "S. J.", in dark ink, located below the closing "Very truly yours,".

1883-10-07

October 7th. 3

W. F. Brewster, Esq.

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

In reference to a canvass of New Orleans, we beg to say that we would advise not making this at present. We think it would be desirable to wait until the St. Louis business is settled before going to the expense of making other canvasses in the South, as it is our desire to keep the expense down to the lowest possible figure and not make canvasses except when we are quite sure that money will come from them. If, however, Captain Hoffinger is willing to pay for this canvass of New Orleans, we will of course make it under his instructions, but otherwise we would prefer not making it for the present.

Very truly yours,

J. A. G.

1883-10-08

October 24th. 3

Western Electric Co.

62-64 New Church Street, City.

Dear Sir:-

Referring to your Order No. 087, under date of October 4th. and which we return herewith, we very much regret to state that we have not got on hand the carbons which you desire, and as we have broken up our laboratory we have discontinued making them.

Would it not be possible for you to make these yours? If we should much prefer you to deal with the matter in this manner.

Very truly yours,

*G. A. L.*

Enclosure.

1883-10-08

October 11th, 1883

John Kruesi, Esq.

48 Washington Street, N.Y.

Dear Sir:-

Referring to the attached telegram from the Treasurer  
of the Lawrence Company, does your bid for the additional under-  
ground conductors take in the extension Mr. Lord refers to?

Please let me have a reply by return.

Very truly yours,

SL

1883-10-08

October 8th.

3

"Secretary,"

Edison Electric Light Co., Limited,  
74 Coleman Street,  
London, E. C. England.

Dear Sir:-

We beg to acknowledge receipt of your letter of the  
25th. ult., signed by Mr. Claude Beckett covering orders Nos. 511 and  
512.

The reduction in prices for lamps was made subject to  
orders being given us for 10,000 lamps. The prices quoted to you  
were figured down as low as possible, provided lamps were ordered  
in the quantity named. It is quite impossible for us to vary  
the offer made to you in our favor of the 15th. ult., and unless  
you are prepared to order in accordance with that letter, the prices  
must stand the same as those given to you. There is not sufficient  
margin in the manufacture of lamps to allow of any modification,  
unless upon the quantities stated to you in ours of the  
15th.

We accordingly cabled you to-day that we could only fill  
the orders at the old prices, unless you were prepared to give us

1883-10-08

2

an order for 10,000.

Very truly yours,

*Tahf*

1883-10-08

October 11th.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

Referring to your favor of the 11th. inst., we beg to say that it is not our intention to make any more detailed estimate for Newburgh, as we consider that the information given in our letter under date of October 4th. is all that you can possibly want in submitting the matter to the Newburgh Company.

In that letter we show the reductions which we will make in the street installation and electrical part of the estimate, providing you decide to cut off the mains and feeder as described therein, and a further estimate would simply be a duplicate of the one you have embodying the alterations mentioned in our letter of the 4th. inst..

We will send you by to-morrow's mail blue print and specification of the building which we propose to erect at Newburgh, and you will find the information which we give you on that is necessary for an outsider to have in order to bid for the erection of same.

The statement of profits will accompany them.

Very truly yours,





1883-10-08

October 8th.

Mrs. T. A. Edison,

City.

My Dear Mrs. Edison:-

Can I sell the gray pony and the children's wagon and brown harness for \$100.7 This is the best offer that I can get for it. Johnny tells me that the wagon is very much dilapidated and the pony is worth comparatively little.

Please give me an answer by bearer, as I want to reply to the offer to-day.

I will try to get around to see you this evening.

Very truly yours,

81

1883-10-08

October 8th.

3

W. B. Rich, Esq.

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I enclose you herewith two blue prints, one showing the foundations of the Fall River building and the other the general internal arrangement of the station. I also attach an office copy of our estimate, and would call your attention to the fact that the prices quoted are our selling prices.

We have placed our orders for the boilers, engines, dynamos and steam and exhaust piping, so that there will be no delay when you are ready to have us ship this material. We have also ordered foundation caps, bolts and washers.

Referring to the column for net cost, do you not think it would be a good idea for you to fill in opposite each item (the exact cost of which is only accessible to you) the actual amount expended in connection with same. I refer to foundations, boiler hearth, cost of hoisting & guying, stack, and you might also give the cost of the labor in connection with the hanging and direct of steam and exhaust piping etc. This would prove to be very valuable information to us and we shall be glad if you will fill these costs as accurately as possible.

Very truly yours,

ES

1883-10-08

October 8th. 3

C. E. Spiers, Esq.

232 Murray Street, City.

Dear Sir:-

Mr Edison wants to see you to-morrow (Tuesday) at  
twelve o'clock sharp.

Very truly yours,



1883-10-09

October 9th.

3

O. A. Moorand, Esq.

Kristiansund, Norway.

Dear Sir:-

Referring to your favor of October 8th., I beg to inform you that the instrument you refer to for the assistance of deaf people was never perfected, owing to my having to give my attention to other matters. I hope, however, at some future day to take it up and deal with it again, but at this writing cannot say when it will be.

With relation to electric lighting, I think the best thing you can do is to write to Mr. Bailoy, who will doubtless communicate with you and give you the information.

Very truly yours,



1883-10-09

October 9th.

3

A. E. Kissell, Esq.

Knoxville, Tenn.

Dear Sir:-

Your favor of the 3rd. inst. came to hand during my absence from town.

In reply, I beg to state that the only way that we would make an estimate is to have a regular canvass of the town made, and on the data thus obtained make our tender in the regular manner.

There would be no necessity to have an electrician to run the station. One engineer and one motorman is quite sufficient. Sanbury with 500 lights, Shamokin with 1000 and Brockton with 1000 are run by two men, the motorman helping the engineer from 5 P.M. until 10 P.M., after which hour the main load is nearly off, the engineer runs the balance of the night and the motorman comes on at 10 in the morning, attends to the motorwork, bookkeeping, collects bills and turns the money over to the Treasurer of the Company. The inside wiring is done by a local plumber, who is taught the work by our experts when we send on. It is a very bad policy to have the local company do any of the inside wirework, as if they do the consumers will pay off the light against their wire bill.

1883-10-09

2

If you will write Major Eaton that the prospects are good for organizing a company he will order us to make a canvass, and we will push through the work as quickly as possible.

If they require us to do the work, we are willing to take a contract, providing they leave the whole of it to us. We are not, however, prepared to let them do part of it and take a contract for the remainder. Our experience with this method of procedure at Shumokin compels us to take this course, as it ends in increasing the expense and causes great delay, and gives neither satisfaction to the local company nor to ourselves.

Very truly yours,

*Jaeger*

1883-10-09

October 9th. 1883.

Gustav Seldan, Esq. Supt.

104 George Street, City.

Dear Sir:-

I beg to give you below an extract from a letter which  
Mr. Edison has received from Mr. Ketchum:-

" 140 light machine. I have just altered an I to give  
140 jumps quite easy and it works very well indeed.

Armature:- wound like a B

18 wires No. 18 each coil.

resistance 0.030 ohms.

Each core wound with 103 lbs. No. 18 wire, paper  
on core but after the bottom layer no paper.

The wire passes through a hot solution of para-  
fin and resin on the lathe during winding.

Test, 1,200 turns

140 Amperes.

110 Volts.

F Dynamo. I have altered all the F dynamos, we had  
commenced to give 1000 turns instead of 2400 which is a speed  
which gives no satisfaction in the hands of the public.

Armature:- Instead of 2 wires 11 turns around I make 2  
wires 12 turns around, this makes the armature more resistance but  
then we can easily sell them at that."

Yours truly,



1883-10-09

October 9th.

3

J. W. Sorrell, Esq.

140 Nassau Street, City.

Dear Sir:-

I do not think there is any necessity to take an appeal  
in the first count of the Nicholson case.

Very truly yours,

*W. A. G.*



1883-10-09

October 9th.

George W. Wilbur, Esq.

care W. J. Jenks,

Brockton, Mass.

Dear Sir:-

Please advise me as early as possible how soon you will be through canvassing Brockton. I would very much like to start canvassing Auburn, N.Y. early next week. If you can go there earlier, so much the better.

Yours truly,

1883-10-09

October 9th.

3

J. H. Denty, Esq.

Shreekin, Penna.

Dear Sir:-

My private secretary, Mr Insull, will be in Shreekin either Wednesday or Thursday, in order to arrange with you for the settlement of my account for the installation of the central station at Shreekin.

Very truly yours,

*G. A. G.*

(883-10-09-)

October 9th. 8-

Frank S. Marr, Esq. Treas.

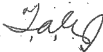
Edison Electric Illuminating Co.

Sanbury, Penna.

Dear Sir:-

Referring to your favor of the 3rd, October enclosing paragraph from the "Public Ledger", I beg to inform you that there was no fire, except in a service pipe four feet underground and where there was no safety catch. No fire can or has ever happened in our district, and we have reduced the average fires thirty five per cent. within the area we are now lighting.

Very truly yours,



1883-10-09

October 9th.

3

Monsrs. Messrs. & Co.

303 Avenue, N., City.

Dear Sirs:-

I enclose you herewith a two months note for \$2,34.03 in settlement of our laboratory account. My books agree exactly with yours on this account, so this clears us off until October 1st

I also enclose you a three months note for \$2,390.03.

I make this amount up as follows:-

\$1,410.43 amount due your Wiring Department by our Construction Department, according to our books and \$730.50 amount due your firm by our Construction Department, also according to our books. This leaves a difference of \$316.01 due to you according to your books, and which we do not appear at this writing to have on our books. Mr Tate will communicate with you during the week with a view to straightening the matter out, when we will endeavor to hand you a check for the balance.

I also enclose you a check for \$3,035.00, on account of your account against the Edison Electric Light Company. You should send some one up to sign a voucher for this.

Will you please send me a check for \$1,400., in return for the check which I gave you on Saturday. I will deposit that check to-day, with the one I now have here for \$600., into this

1883-10-09

2

afternoon, so they will not get into your bank until to-morrow.

Very truly yours,

A handwritten signature, possibly reading 'S. J.', is written in dark ink.

Enclosure.

1883-10-09

October 9th.

3

A. M. Beach, Esq.

211 Broadway, City.

Dear Sir:-

Referring to yours of the 11th. inst., I will find out from the writer of the article whether he would like his name published. My impression is that he would prefer to assume a nom de plume.

Very truly yours,

*T. A. C.*

*T. A. C.*

1883-10-09

New York, October 9th. 1883.

Messrs. G. E. Gouraud, Joshua Franklin Bailey & Theodore Puskas,

Dear Sirs:-

The undersigned acting for and by authority of the Edison Telephone Company of Europe, Limited, and also for himself individually as co-vendor under the agreement dated 10th. November, 1881, between T. A. Edison, The Edison Telephone Company of Europe, Limited and others, and the Edison-Gower-Hell Telephone Company of Europe, Limited, you are hereby authorized and directed to transfer the 175,000 shares of the Edison-Gower-Hell Telephone Company of Europe, Limited, notwithstanding in your name, into the names and to the amounts as follows, viz:-

- |   |               |
|---|---------------|
| 1. The Edison Telephone Co. of Europe, Limited..... | 175,000       |
| 2. Thomas Alva Edison.....                          | 44,750        |
| 3. George Edward Gouraud.....                       | 61,250        |
| 4. Theodore Puskas.....                             | 4,500         |
| 5. Joshua Franklin Bailey.....                      | 8,500         |
|   | <hr/> 175,000 |

Witness.

The Edison Telephone Company of Europe, Ltd.

President.

Witness.

1883-10-10

October 10th.

Gustav Saldan, Esq. Capt.

104 Gorek Street, City.

Dear Sir:-

Here is an extract from our masterman at Shamokin,

Mr. Conant:-

"I have fitted to one of the dynamos a couple of straps by which the brushes may be raised from the commutator when shutting down. The arrangement is as in the following sketch.

All that is necessary is to pull the strap and catch the ring over the hook. Above the ring is placed a buckle to allow of adjusting the lift. At the end of each strap is a small stick which is caught under the brushes (as shown at W. 1.)

The rollers are screwed to the wooden base of the dynamo. There is enough slack to allow of shifting the brushes when necessary during a run. The arrangement works easily and the entire cost is about \$1.00. What do you think of the idea?"

Yours &c  
T. A. L.



1883-10-10

October 10th. 3

Messrs. Bergmann & Co.

202 Avenue U, City.

Dear Sirs:-

I beg to give you below extract from a letter received by Mr. Edison from our meterman, Mr. Copant, who is now at Shamokin:-

"The copper wires on the 3 light plates, as you know, are extra long to allow for the small plate. This is all right, but Bergmann has sent me a lot of 13 light mazex plates which for some reason are fitted with 3 light copper wires, so that to get them into the meter they must be cut down, and we cannot waste time in sending these back but this should not happen again. The 33 light coppers also you remember are too short."

Very truly yours,

A handwritten signature, possibly "S. J.", with the number "4" written below it.

1883-10-10

October 10th.

3

Messrs. Stigman & Mc. Carty,

Brownsville, Texas.

Dear Sirs:-

Replying to your favor of the 27th. September, we beg to say that at Sunbury, Penna. we have installed a 500 Edison Electric Light Plant, the cost of which, with building and everything put up complete, was \$14,500.; at Shamokin, Penna. we have a 1000 light plant, the cost of same complete being \$30,000; and we have also a 1000 light plant at Brockton, which was installed at a cost of \$31,000. All these plants are working perfectly, and consumers of the light say that they are thoroughly satisfied with it and would not on any account use gas when they can obtain our light.

We would suggest your sending maps of both the towns mentioned in your letter, and if possible stop the operations of the arc light people.

Very truly yours,

L. A. G.

1883-10-10

October 10th, 1883

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I am in receipt of your telegram of last night stating that the refilling of the trenches is unsatisfactory. I also received another telegram and letter from you this morning in reference to the extension of your system on both sides of Essex Street.

I have referred this and the matter of the unsatisfactory refilling of the trenches to the Electric Tube Company, who will instruct their foreman at Lawrence to have this work properly done.

The three 100 light meters which you ask for will be sent at once.

Very truly yours,

*Tale*

1883-10-10

October 10th. 3

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I send you herewith Maps of Middletown, Ohio and

Norwich, Conn. for determination.

~~These are not, but, I think,~~

*Norwich is Underground - Middletown is on the line.*

Kindly let me have these as soon as possible, and oblige,

Yours truly,

*Tak*

1883-10-19

October 10th. 3

Messrs. Herrmann & Co.

302 Avenue B, City.

Dear Sirs:-

Referring to your invoice of October 5th. for one main  
ampere indicator for Shenokin, which appears to have been ordered  
by Mr. Andrews, we wish in future that you would not accept orders  
for material on account of the Construction Department unless they  
are issued from this office, as it causes great confusion and we  
never know what material is being supplied for our stations.

Very truly yours,

Toby

1883-10-10

October 10th. 8

W. S. Andrews, Esq.

care W. J. Jenks, Manager,

Brockton, Mass.

Dear Sir:-

I am in receipt this morning of two invoices from Messrs. Hermann & Co., each for an ampero indicator forwarded to Shamokin, one of which has been supplied by an order from this office and the other by verbal order from yourself.

We do not understand what use you can have at Shamokin for two ampero indicators.

In future when you require material *we would much* prefer you to place your orders through the medium of this office, as it is impossible for us to keep track of our business unless we know exactly what is going on.

Very truly yours,

*W. S. Andrews*

1883-10-10

*Electric Tube*

October 10th. 3

Electric Tube Co.

44 Washington Street, City.

Dear Sirs:-

I am this morning in receipt of a letter from the Treasurer of the Lawrence Company stating that their system must be extended on both sides of Essex Street.

A few days ago I referred a telegram in reference to this extension, in reply to which you stated that your bid for additional underground conductors required at Lawrence covered this extension. I received another telegram last night from Mr. Lord stating that the refilling of the trenches was unsatisfactory, and that your foreman would not repair the damage. We shall be glad if you will give both these matters your immediate attention, and ascertain what has given rise to the complaint which Mr. Lord makes, and have the matter adjusted as quickly as possible.

Very truly yours,

*T. A. L.*

1883-10-10

October 10th, 1883

W. M. Dwelley, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

In reply to your favor of the 4th. inst., we beg to say that everything at Fall River will go ahead with all possible despatch, and Mr. Rich will be there in good time.

Mr. Edison is at the moment working out his scheme for wiring, and we would suggest strongly the advisability of your not making any promises to the public about wiring or prices of the light, otherwise it will severely interfere with Mr. Edison's arrangements, as it did at Hockley, where all the wiring must be done over and where they started too low on the price of the light, and installed far more light than parties required, thus running up their bills unnecessarily. You can rest assured that work will be proceeded with to your entire satisfaction, and that no time will be lost by us.

Very truly yours,





1883-10-11

October 11th, 1883

A. A. Cowles, Esq. Supt.

Ansonia Brass & Copper Co.

19 Cliff Street, City.

Dear Sir:-

I beg to enclose you herewith copy of my Power of Attorney from Mr Edison, as promised.

Very truly yours,

1883-10-12

October 13th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

At Lawrence it is proposed to put ~~two~~ light machines to take the place of the one 600 light spare machine, and this will require a different regulator to what we have been putting in in stations already started.

We have got to provide for running, first, the two regular machines, second, for one of the spare machines on either side, third, for one of the spare machines on each side, fourth, for both of the spare machines on one side or the other side, as the case may be. Now is your switch going to take care of this, and how are the regulators going to be arranged to take care of it?

Will you please study up this matter and let us have your ideas as early as possible, and in doing so please remember that an "H" regulator costs us \$30., and that we want to keep the expense of the regulation down as low as possible, compatible with its completeness. Of course you may think of some other points that we have to take care of besides the above enumerated, if so, allow for it.

Very truly yours,

S. J. A.

1883-10-12

October 13th,

3

George S. Ladd, Esq.

222 Sansome Street,

San Francisco, Cal.

~~Dear Sir:-~~

I am obliged to you for your favor of the 3rd. inst., and must thank you for the trouble you have taken with relation to our light for Mexico. It is, however, a matter with which I am personally unable to deal, as Mexico is controlled by the Edison Electric Light Company, who I think have a contract with some one in the city of Mexico.

I have referred your letter to Major Eaton, and he will doubtless communicate with you giving you detailed information on the subject.

With kind regards, I remain,

Very truly yours,

Jab  
\$7

1883-10-12

October 12th. 3

Paul W. Dyer, Esq.

Post Office,

Kansas City, Mo.

Dear Sir:-

I telegraphed you to Synthiana, Ky. requesting you to canvass Kansas City.

Mr. William F. Brewster, the special agent of the Edison Electric Light Co., desires you to see Mr. W. H. Winants, Cashier, Armour Brothers Banking Co.

It is proposed to put a plant in Kansas City of 4000 lights, so you will have to take in as large an area as possible.

I know it is quite unnecessary to urge you to hurry through the canvass, but I may as well state that we are waiting to get out the estimates and of course can do nothing until we get the canvass from you.

Very truly yours,



1883-10-12

October 13th, 1883

Messrs. Brower & Jensen,

33, Chancery Lane,

London, W. C. England.

Dear Sirs:-

Referring to your notice as to Patent 4,379 of 1880,

I beg to inform you that I do not propose paying the fee, and the  
Patent will therefore have to lapse.

Very truly, yours,

*John*

1883-10-12

October 12th.

3

William F. Browster, Esq.

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

I have your favor of the 6th. inst.

I have ordered Mr Paul O. Dyer to Kansas City to make a canvass of the town. He was in Wyndham, Ky. yesterday, and I presume will be in Kansas City in the course of a few days. I also wired you last night asking you to send him introductions to the right parties in Kansas City. I trust that you have done this.

We have instructions from Major Eaton with relation to the canvass of New Orleans. Immediately Mr Dyer is through at Kansas City, it would be well for him to go to New Orleans, but I would suggest that you write Major Eaton on the subject. I have myself sent a memorandum down to Major Eaton about this matter.

Very truly yours,

Gal  
7

1883-10-12

October 14th. 3

W. H. Cooke, Esq.

Osborne House,

Auburn, NY.

Dear Sir:-

I was away at the time you started for Auburn, and therefore had not an opportunity of speaking to you.

Mr Edison is very much dissatisfied indeed with several of your canvasses which show a great many mistakes. Appleton is a special case on which he has based his remarks. I have been over Mendota canvass with a gentleman from that place, and he also claims that it is very incorrect, and I notice in several places that you omit entirely the alleys and your ~~arrangement~~ of lights in many cases are very defective.

I write to warn you about this matter, and trust that the Auburn canvass will be a complete one.

Very truly yours,



1883-10-12

October 12th. 3

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,  
Boston, Mass.

Dear Sir:-

We wired you last night requesting you to communicate  
with Mr. C. H. Cooke, Osborn House, Auburn, whom we have sent there  
to canvass the town.

We are anxious that he should get from you the names of  
local parties for him to call on with relation to the canvass, and  
therefore trust that you have written to him on this subject.

Very truly yours,

*John*  
7



1883-10-12

October-12th.

3

O. J. Smith, Esq. Prost.

Americal Press Association,

39 & 41 Park Place, City.

Dear Sir:-

Referring to your letter of the 10th. inst., Mr Edison, who left town last night, requested me to inform you that he is so very busy that it is quite impossible for him to write the articles you refer to. He will be out of town the most of the time between now and November 1st., but after that date if you care to interview him, and so get at the data to write up articles on the subject you refer to, he will be very glad to give you the necessary time for the purpose, what I mean is for one of your representatives to get from Mr Edison exactly his views and then write them up himself.

Very truly yours,

Sdy  
O. S.

1883-10-12

October 12th. 3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I have your memorandum as to case No. 62.

I will look into the matter further and write you again in the course of a few days.

I hasten, however, to reply to your remarks on our meter.

We have been running since the 4th. July at Sanbury, at Shamokin for the last month and at Brockton for the last three weeks and down town since the early part of the year, and in all these places our meter has given very great satisfaction to the consumers. At Sanbury, where in all probability our customers have fewer lights in their houses than in any other place, the consumers in several instances have kept an exact record of the lamp hours, and the bill has tallied so closely with what they reckoned it ought to be from calculating by their lamp hours, that it has really surprised me, as the variation has not been more than two per cent in any case, and in a number of cases the meter and lamp hours have tallied within the smallest possible fraction. We dispense now with the quarterly bottle, and use one

1883-10-12

3

bottle as a check on the other, calculating the loss on the plate in each bottle and taking the mean.

I will get from Mr. Chinnoch some copies of his meter accounts and send them to you to substantiate what I say.

In fact I am so very much pleased with our meters that I would not for an instant think of using the recording meter, as the advantages of its being automatic would in no wise compensate for the difference in correctness as compared with our present form of meter.

Very truly yours,

*John*

*J*

1883-10-12

October 13th.

3

Messrs. Alden & Sterne,  
City.

Dear Sirs:-

I enclose you herewith letter from Homer Norman.

We are very anxious to let Bramorey Park indeed. Do  
not you think it would be a good idea to put up a notice that the  
house is to let?

Yours truly,

Gal  
7

1883-10-12

October 13th,

C. E. Chinnock, Esq.,

257 Pearl Street, City.

My Dear Chinnock:-

We have a letter from Europe "kicking" against the use of our meter, and we have written saying that if a check is kept on the meter by keeping an exact account of the lamp hours the correctness of our meter would be established.

Will you please write me a letter officially giving your experience with the meter and accompanying it with a few specimens of your meter records, which gives the name of the consumer, the loss on each piece and the amount of the account, also mentioning on what standing the calculations are made. What I want to do is to "lay out" these Europeans who "kick" against our meter, and want us to adopt a recording meter which would never be such a success as our present meter records.

Very truly yours,

A handwritten signature, possibly "S. J.", is written in dark ink. The signature is stylized, with a large initial 'S' and a smaller 'J' below it.

1883-10-12

October 13th,

3

Thomas P. Conant, Esq.

Weavers National Hotel;

Shamokin, Penna.

Dear Sir:-

Your letter asking for a check for salary came to hand while I was in Williamsport.

I have the pleasure to enclose you herewith check for \$ , being the amount of your <sup>pay</sup> ~~salary~~ for the months of August and September. (*This square your pay up to Oct 1<sup>st</sup>*)

I shall leave New York for Shamokin Sunday night, and shall hope to have the pleasure of seeing you Monday morning.

If you should happen to find a piece of steak not more than ordinarily tough, you might save me half of it, as leather flavored with the essence of beefsteak is certainly indigestible, to say nothing about its being unpalatable.

Very truly yours,

*SS*  
*7*

1883-0-12

October 18th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I am in receipt of yours of the 11th, inst.

I cannot possibly order Conant from Shenackin at present. Cannot you borrow from Mr Rich some of his men to help you and so push your work through rapidly? I am anxious that Lawrence station should be started as early as possible, as we have quite a heavy payment dependent upon the current being put on the mains.

Very truly yours,

*AS*  
*7*

1883-10-12

October 12th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to remind you that up to this writing we have never received any detailed report as to the progress of the business in Brockton. We are frequently called upon by the Officers of the Electric Light Company for information, and we are absolutely unable to give it in consequence of our not hearing from you. Will you please, for the future, report at least twice a week to this office, irrespective of whether Mr. Edison or the writer should happen to be in any town where you may have charge of the electrical work. When we tell people that we are unable to give them information, they are inclined to think that we do not ~~want~~ <sup>mean</sup> to give them the information, and our position is therefore a very awkward one if you do not keep us posted.

Very truly yours,

S. Insull  
P. Sec.



1883-10-12

October 13th. 3

M. Ward Leonard, Esq.

care W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

I have your letter of the 11th. inst., and enclose  
you check for <sup>25</sup>~~22~~ as requested.

When you were here I asked you to report to this office  
exactly the course your business takes in Brockton. You should  
send us at least twice a week a statement showing the number of  
meters installed, in whose house they are installed, on which  
side the of the circuit the lights are and the number of lights  
each consumers is wired for, also any other information of interest  
in relation to the meter business. I trust that we shall not  
have to ask for this again, as I can assure you it is very annoying  
not to have the information here, as we are frequently called upon  
to give such information and it places us in a very awkward posi-  
tion in not being able to tell people, who have a right to know,  
how our business is running.

Very truly yours,

*S. J. Smith*  
*W. J. Jenks*

1883-10-12

October 12th. 3

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,  
Boston, Mass.

Dear Sir:-

I have your letter of the 11th. inst.

The reason the bills have been unpaid in Brockton is that it was impossible for us to deal with ~~them~~ until getting Mr. Rich's approval of same. This approval came to hand during my absence from town. I returned this morning and will pay them all up immediately they can be passed through our books, which will be I presume either to-morrow or Monday.

Very truly yours,

*Fal*  
*y*

1883-10-12

October 12th, 3

W. R. Dooty, Esq.

Shamokin, Penna.

Dear Sir:-

I found your telegram here when I returned from Williamsport.

I shall be in Shamokin Monday morning, and shall hope that things will be in shape by that time.

I have just got the first small delivery of the new cable. Will you please wire me in the morning the quantities and sizes required by Floyd of this material. If he ~~can~~ calculates on single wire, I will know how much double wire to ship.

Very truly yours,



1883-10-15

October 15th.

3

F. R. Upton, Esq.

East Newark, N. J.

Dear Sir:-

Referring to your favor of the 13th. inst., I have thought over your proposition as to English orders, and I am strongly of the opinion that we should not give way to them on the question of prices, as if we do we will be compelled to take the same course all through, and they are such desirable customers that we need trouble ourselves about bidding very closely for their trade.

Very truly yours,

*Jul*  
*7*

1883-10-15

October 15th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

Referring to your letter of the 11th. inst. to Mr Edison he says that he thinks that you can figure on what the Shamokin people require for their Opera House yourself. If so, will you please get up a sketch of the regulator and send it on, and we will have Bergmann estimate on it.

Very truly yours,



1883-10-15

October 15th.

3

Gardner C. Sims, Esq.

Providence, R. I.

My Dear Sims:-

The speed indicator which we use in the central station is made by T. R. Harding & Son, Tenter Works, Luddes, England but they have agents some where in Boston. I do not, however, know the agents address, and we do not appear to have any spare indicators on hand. I should think some of your Boston friends could probably assist you towards getting one.

Very truly yours,

S.S.  
7

1883-10-75

October 13th. 8

W. S. Andrews, Esq.

Franklin House,  
Lawrence, Mass.

Dear Sir:-

Referring to your letter of the 11st. inst., to Mr. Edison, as far as I understand there are three ampere meters at Shamokin, whereas our contract only calls for one, and my impression is that we shall have to stand the loss of the other two. One ampere meter would have been sufficient, I presume, for them to get along with, although of course it is desirable to have two and much better to have three. My idea was to let the matter run on until we had settled our contract, and then if they wanted more than one they could order it. I cannot find any record in my office of having ordered more than one ampere meter from Bergmann. When I complained to him that three were sent, he says I must <sup>sent</sup> blame you, as they were at your request. Chamberlin knows nothing about what ampere meters should go to one place or another. I know your inclination is to communicate with us in all matters before doing anything, but what I want to get at is, in this special case, whether it is Bergmann's "bull" or your instructions, or some remarks of Mr. Edison to Chamberlin, which caused three ampere meters to go to Shamokin, which is a loss to us of about \$40.

*S. J. v.*

1883-10-15

When he gets there <sup>or</sup>

October 15th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 11th. to Mr. Edison, we have talked the matter over of the Lawrence central station and have come to the conclusion that the best thing to do is to give you Carte Blanche to let you make such arrangements as you see fit. Will you please do it on as economical a basis as possible.

I think Mr. Edison will be in Brockton some time towards the end of the week, probably about Wednesday or Thursday, and he will have a pressure indicator with him, which is just the "boss". When he gets there you want to go over and see it work. We propose taking out all the old pressure indicators and putting in these new ones.

Very truly yours,





1883-10-15

October 13th.

"Secretary",

Edison Electric Light Co., Limited,  
London, E. C., England.

Dear Sir:-

Referring to your Assistant Manager's letter of the 2nd. October, I beg to inform you that order No. 534 will be shipped by the Assyrian Monarch on the 14th. The engine has been in New York some days, but there is no steamer sailing earlier. Your order also for an 8<sup>1</sup>/<sub>2</sub> x 10 engine will be shipped at the same time. I may mention that our engine builders have so many orders ahead, and we ourselves have to order quite a large stock of engines in order to meet the demands against us in this country, that it is very difficult to send you an engine off-hand. If you are not prepared to carry a stock of engines you should order them well in advance, as otherwise we will have great difficulty in getting them for you by the time you require them.

Very truly yours,

*J. A. G.*

1883-10-15

October, 15th. 3

W. H. Doolley, Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Referring to your favor of October 10th. to Major Eaton in relation to the installation of your plant at Fall River, I would state that we are pushing everything in order to have the plant installed at the time stated, namely, the end of November. You must really leave it to us as to whether we shall commence any particular part of the work. We do not dare to send men to Fall River to make a show there, and get some part of our work through a month before the other. This we cannot afford to do. Everything so far is going on very well, with the exception of the tubes, and I am inclined to think that your not writing to me guaranteeing the tubes, so as to enable us to order them, may cause us some delay. So far we have had to make considerable sacrifices in order to get promises or deliveries of tubes at all. I fancy, however, that Mr. Rich has been to Fall River since you wrote, and is preparing to start his portion of the work, which I can assure you is the quickest done, and, consequently, should be really the last commenced. If you will please have a little patience and not think that we are doing nothing, simply because you

1883-10-15

do not see a whole army of men in Fall River, I think you will  
find the thing will come out all right..

Very truly yours,

Fal  
7

1883-10-15

October 15th, 1883

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Your telegram of the 13th. came duly to hand.

We have not a very high idea of Johnson's qualifications, and have been endeavoring to get a man more suited to our work, but we have not at this writing been able to get the man that we want, and until we do get one it is quite impossible to recall Johnson. Meantime we would like to ~~know~~ from you some further information as to the trouble with him you complain of.

Very truly yours,

Jab  
J

1883-10-15

October 15th. 1883

John W. Lieb Jr., Esq.

via Manzoni, 12 A,  
Milano, Italia.

Dear Sir:-

Referring to your favor of the 27th. September, I regret to say that I cannot send you the rigging you ask for unless I get an official order for same.

With relation to the valve motion attached to the Armstrong & Sims engine, which you say is broken, I can give no explanation, except that the trouble must have occurred after the engine left here, as before we shipped it it was thoroughly tested.

Very truly yours,

*Jal*  
7

1883-10-15

October 15th.

3

W. A. Stern, Esq.

830 North 5th. St., Phila. Pa.

My dear Mr. Stern:-

Your two postals of the 14th. inst. just to hand.

We are having the library removed from Mr. Edison's house to this office, and as soon as the books are in order I will look up "Gordon's Electricity and Magnetism" and send it to you.

I am sorry to hear that you have been eight weeks in bed suffering from such an accumulation of troubles, but it is a great relief for me to know that such troubles are of a legitimate instead of an illegitimate nature.

Hoping that you will soon be well, believe me,

Very sincerely yours,

*E. J.*

P.S. Owing to my having to go out town, this letter will have to be signed by my assistant, as I dictated it on Sunday, and it will be written on Monday.

1883-10-16

October 15th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Dear Sir:-

I have your favor of the 10th, inst.

I do not care to stand the expense of your sending a man to start your engines in our stations. I think that you should supply us with an engine which we can start ourselves, we such men as we have.

Very truly yours,

*G. C. Sims*  
*P.S.*

1883-10-16

October 18th. 3

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to acknowledge with thanks your voluminous letter of the 18th. inst.

At the moment we will only deal with one or two points.

I have received your telegram asking us to recall Johnson, and this morning wired you to have him return to New York at once. I told you, if you have the money, to give him \$30., and if you had not to draw on me at one day's sight for that amount and to take Johnson's receipt for it. We are very much surprised and disappointed in this man.

In relation to pressure indicators there have been vast improvements made in these within the past few days, and the difficulty you have met with will be entirely overcome when the new indicators are placed in service. Mr. Edison will go on to Brockton to-morrow or the next day and will have one of these with him.

At the moment I have no time to deal fully with your letter but will do so this evening or to-morrow.

Very truly yours,





1883-10-16

October 10th. 3

Thomas P. Conant, Esq.

Weavers National Hotel,

Shanokin, Ponna.

Dear Sir:-

I fancy that I have left my bunch of keys in room 10.

Weavers National Hotel:

Will you please enquire as to whether a bunch of keys  
were found in that room, as I am absolutely keyless.

Very truly yours,

S. J.  
H.

1883-10-16

October 13th. 8

H Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brookton, Mass.

Dear Sir:-

Mr. Sprague informs me that one 60 light meter complete and one 40 light meter were shipped to Borgmann & Co's on the 12th. from Brookton, and says that it is your intention to write Messrs. Borgmann & Co. on the subject.

In relation to defective material, we particularly desire that all your correspondence shall come to this office, inasmuch as we order the material and there should be no communication between the parties receiving it and the parties from whom we order it, as we expect those who receive material to consider it as coming from us.

I trust that any complaints you have to make about this matter you will send to us at the earliest possible moment, and enable us to have the matter corrected.

Very truly yours,

*W. L.*

1883-10-16

October 16th. 8

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 13th. inst. in reference to lengthening the boiler room of the Fall River station, and in reply we have to say that if you will build a manhole door for cleaning purposes at the point X shown in the attached sketch, both boilers can be entered from flues. This arrangement should be effected for the first pair of boilers installed, and the same arrangement will be necessary for other installations in the future. You could also obviate the difficulty by having the doors on the top of the flues, as shown on several prints, so that with either of these arrangements no alterations need be made in the building or piping.

We are going to order forward at once all the material for Fall River, and trust that you have made the necessary arrangements for receiving and storing it until such times as it may be required to be used.

Very truly yours,

*SL*  
7

1883-10-16

October 16th.

3

Ball Engine Co.

Bres., Penna.

Dear Sirs:-

We beg to acknowledge receipt of your favor of the 12th inst. in reference to your automatic cut-off engines.

In reply we would say that it would be necessary for us to make a long test of an <sup>1</sup>8 2' x 10' or one that size at our Works, 104 Goerck Street, New York, before we could think of negotiating with you in relation to the use of your engines for electric lighting purposes.

Very truly yours,

*246*  
*9*

1883-10-17

October 17th.

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I have your letter of the 14th. inst., and in reply beg to state that Mr Edison insists that the regulation of the 400 light machines must be taken care of in the same method that we now take care of the spare 600 light machines. Now this is to be done I do not know. Mr Johnson suggested an arrangement of switches to be interposed in the line between the resistance boxes and the field and then you could plug in either one of the small machines or both of them on one side or one on each side. You figure on this, and let us hear from you further about it, as it is hardly a matter which I have the ability to discuss in correspondence.

Borgmann has been getting up a new regulator something like the regulators used at the central station. My impression is that we will put this in our central stations in the place of the regulators already sent out.

I do not know when you will get the new pressure indicators. Can you get along with the old form of indicators? If so, I can send these to you at any time. We intend to send out

1883-10-17

2

the new pressure indicators, which Mr. Edison has been getting up, since you left, and which has been working like a charm, but this will not be ready for some time, and of course the stations cannot be kept waiting in consequence thereof.

I will let you know concerning the plug reader switches and safety catches. The first dozen had a backboard, in fact those sent to Lawrence had a backboard originally, but they were taken off the board at the request of Mr. Sprague, who considered the board useless. I must say that I agree with you as to the advantage of having the backboard.

I have written to Sulgan about what you say as to dynamos. I do not know exactly when you will get the 400 light machines, may be a week or two.

Mr. Ford has written asking for a motorman. Cannot you deal with the matter until Conant is able to leave Shamokin? I would much prefer that you should do this, as we have no man to send you anyway, and I know you would like to have Conant with you, so I would like you to get along until he can go to Lawrence. He was "all broke up" at my telling him he would have to stay a week or two longer in Shamokin, when I was there the other day.

Very truly yours,



1883-10-17

October 17th, 1883.

A. A. Cowles, Esq. Secy.

19 Cliff Street, City.

Dear Sir:-

I have recently received a number of complaints from the Machine Works about errors in the delivery of wire and copper rods. Such errors necessitate the return of the material, and, consequently, a very great delay to us at the Machine Works.

I write to draw your attention to the matter, thinking that it is probable that you may not be aware of same.

Mr. Seldan, our Superintendent, told me this morning that he would call to see you in the course of the day about it.

Very truly yours,



1883-10-17

October 17th.

Paul D. Byer, Esq.

Kansas City, Mo.

Dear Sir:-

We have your letter of the 11th. inst, dated from  
Cynthiana, the canvass of which place arrived here on the 13th.  
inst.

I wired you on the 13th. to go to Maysville and make a  
canvass of that town after you had finished Kansas City. Mr  
Stuart is very anxious to have Maysville canvassed without delay,  
and I therefore wish you would use all possible despatch in getting  
through the town you are now in.

Very truly yours,





1283-10-17

October 17th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We are this morning in receipt of your favor of the 15th. inst., and in reply beg to say that we have instructed Mr. Dyer to return to Maysville and make a canvass of that town after he has finished Kansas City.

We note with much satisfaction your statements as to the organization of the Tiffin Company and the prospects of closing a contract with them.

Under separate cover we send you the estimate for a 1000 light plant for Tiffin with street installation to cover 1700 lights. In our telegram of the 12th. we explained to you that the building which we proposed erecting was to be of brick with stone foundation, and the cost of same \$4,000. If you prefer a frame building, we will erect one suitable for the purpose for \$1,400., but inasmuch as there is not a very great difference between the price of the frame building and the brick building, we beg to suggest the advisability of erecting the latter.

In relation to temporary fixtures, if you do not wish us to supply these you can cut the amount (\$124.03) out of our estimate, and make arrangement to put in permanent fixtures from the

1883-10-17

2

start.

In relation to other estimates, we hope to send you before the end of the week Middletown and Piqua, each a 300 light plant, as you requested.

Trusting that our Tiffin estimate will be found satisfactory, we remain,

Very truly yours,

*T. A. J.*

P.S. We presume you understand that our bid for the street installation only holds good providing the necessary grants and concessions for the erection of our poles and running of our wires, in accordance with the red lines shown on the map sent herewith and marked Exhibit "A", are obtained by the local company. Should they fail to obtain any of these and thereby put us to any additional expense, from having to change the course of the pole line system, it is understood and agreed that they shall reimburse us for the expense.

1883-10-17

October 17th.

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Your letter of the 14th., containing resolution passed by the Hollifonte Company, and letter from Mr Harris, secretary of the same Company, and your telegram of this morning have all been received, and in reply to let us say that we will have a canvasser at Hazleton to-morrow or the next day, and after he finishes up there he can go to St. Catharines.

If we close a contract with the Hazleton company before the 1st. November, we will undertake to put the plant in and have it running before Christmas. A canvass of the town should occupy about four days, and a week after its receipt in this office we could have the maps prepared and the estimate turned out. Just here we wish to remark, that we are really surprised that the breadth of the Hollifonte Company was taken away by our estimate. For a plant of that size, (\$1,000.) we considered the estimate very fair. We will, however, comply with their request and send them an estimate for a 500 light plant at the earliest possible moment.

Very truly yours,

SJ

1883-10-17

October 17th, 1883

Cassidy Solcan, Esq. Supt.

104 Cochrane Street, City.

Dear Sir:-

Mr W. S. Andrews writes me as follows from Lawrence:-

"Concerning the 'H' dynamo, the small square headed bolts used in clamping the connections on the head board should be stouter. I found two of them badly bent here, and I broke one at Shamokin. When I was in New York I provided myself with two spare ones, or I should have been obliged to have had some made here. The two stop pins in groove of rocking arm are useless and in the way, I have had them chipped ~~off~~ every-case."

I thought you might like to have the above remarks from Mr Andrews, as he is probably one of the best posted men we have at the present time.

Yours truly,



1883-10-17

*Electric Pen*

October 17th.

3

John F. Rogers, Esq.

102 India Square,

Boston, Mass.

Dear Sir:-

We have your favor of the 15th. inst., and very much regret the unavoidable delay which has taken place in supplying you with the duplicating ink. We are having some made up for you and will send it to you as soon as it is ready, which will be in a day or two.

Very truly yours,

*J. F. Rogers*

(883-10-17)

October 17th.

3

John Ott, Esq.

252 Avenue B, City.

Dear Sir:-

I enclose you herewith receipt for making the duplicating ink. Please make up about a gallon of this and advise us when it is ready.

I also attach two statements, showing the amount of cable (No. 16) which has been delivered at 252 Avenue B for us. One shipment was made on October 11th. and the other was made yesterday. We shall be glad to know if you have received the shipment of October 11th., and if you are having the wire weighed, as it comes in, and stored in the Laboratory.

In relation to mercury, we sent a box over to you yesterday which we presume contains the missing article. Please fill all our orders for sulphate of zinc and mercury as quickly as possible.

Very truly yours,

SL

Enclosure, c.

1883-10-18

October 18th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I forward you per early mail chart of Middletown, Ohio,  
with mains and feeders marked off as per determination herewith,  
which please check and comment if necessary, and return as early  
as possible.

Very truly yours,



1883-10-18

October 18th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Friend Sims:-

Wright, Upton's man at Boston, is very fond of blackguarding the Edison business. It all comes out of some dealings I had with him with relation to the Jarvis setting at Lawrence. He told me that Mr. Clarke had undertaken to pay for the setting, if we would order it put in. I consequently ordered it put in, as it would cost us nothing, and Mr. Clarke stated that he had not undertaken to do any such thing, so that the Jarvis setting was not put in. This irritated Wright, and to relieve himself he talked in a manner to Rich which is hardly becoming to the representative of engine builders who have such a champion in Mr. Edison. I should not have written to you about this matter, but I heard of Mr. Wright's remarks through another source. He is doubtless a very good fellow, but he has not the ability to be discreet in what he says, and I should advise you to give him a hint to be more so, the next time you see him.

I was very sorry to hear Mrs. Armington, as I would like



1883-10-10

2

to have seen her.

I have cabled home to my mother asking her to wire Mrs. Armington at Queensland inviting her to stay at our house in London during her visit to that City. Please tell Alice this, as I told her I would send such a cable.

Very truly yours,

A handwritten signature, possibly 'S. J.', written in dark ink over the typed name 'Very truly yours,'.

1883-10-18

October 18th. 3

R. Adams, Esq.

City.

Dear Sir:-

Agreeably with your request, I beg to give you below an estimate of the probable running expenses in connection with the electric light installation which it is proposed to make at the Navarro Plate:-

DAILY.

Electrician and meterman.....	3 3.50
One engineer, seven months .....	4.20
Two engineers, five months .....	3.00
One fireman.....	3.00
Coal 4 lbs. H.P. per hour at 3d. being 3 tons year round.....	5.00
Oil, waste.....	.50
Water.....	1.10
Lamps at \$1. each.....	15.00
Insurance.....	1.50
Depreciation (long).....	11.50
Repairs.....	1.50
Stationery.....	.30
Forward.....	50.00

1883-10-18

Forward.....	\$30.80
Water supplies.....	.25
Fire grate bars.....	.20
Taxes.....	1.30
Carting ashes.....	.25
Extras.....	<u>2.00</u>
Total.....	\$37.80

Above based on a daily average of three hours use of the 4000 lamps during the year.

Taking into calculation that parties be absent two months in the year and that only 4000 out of 11000 lights is figured on, it is believed this average is correct.

Adding five per cent interest on say \$100,000., which for 303 days is \$13.50 per day, the daily running expenses will be \$70.80, or \$25,575.50 yearly.

4000 burners burning equal to five cubic feet of coal gas would be 20 lbs per hour or 60 lbs per day of three hours average the running expenses being \$70.80 daily, would bring the cost of each lb equivalent to \$1.16. Paying gas at \$2.25, would make a loss of \$94.10 a day to the occupants of the flats.

Interest at five per cent being already allowed, this

1883-10-18

3

\$34.10 would pay twenty three per cent more on the \$100,000, or altogether twenty eight per cent on the investment, and the investors would obtain a vastly superior article.

very truly yours;

*Zab*

P.S. With 1st apartments, this would be \$740. for each, as investment and light bills would be about \$16.75 per month.

1883-10-18

October 18th.

3

T. Adams, Esq.

City.

Dear Sir:-

Referring to your request for an estimate for the installation of an electric light plant and other electrical work at the eight Navarro Flats, 36th. Street & Seventh Avenue, I beg to state that we will, with the permission of the Edison Electric Illuminating Company of New York, install for the sum of eighty nine thousand eight hundred and fifty dollars (\$89,850.) an electric light plant which will supply at one time 4000 lights, giving ten candles spherical illumination, which is about equal to five feet of coal gas as burned in practice. The plant can be forced on occasions to run 4500 lights. The Edison Electric Illuminating Company will guarantee that the life of the lamps will average 600 hours, when they are run at their rated power of ten candles each, and will also guarantee that ten lamps can be obtained for every indicated horse power.

In addition to the above, the amount named (\$89,850.) includes the wiring of all the Flats for about 11000 lights, the wiring for telephones, electric bells and district telegraph calls to a central station in the Flats, the rostering of the plastering where it is necessary to cut holes in the walls and ceilings, the

1883-10-18

2

furnishing of switch-boards and the fitting up of a central station except the telephones, which you will have to obtain from the Telephone Company, and also the furnishing and erection of speaking tubes throughout the Flats.

The terms of payment that I should require, if a contract is entered into, are as follows:-

Twenty five per centum of the amount of the contract on the signing of same, twenty five per centum when the engines, boilers and dynamos are in their place, twenty five per centum when the electric light installation is ready to supply light and twenty five per centum thirty days thereafter.

Yours truly yours,

*Sal*

1883-10-14

October 16th.

3

Dr. O. A. Moses,

155 East 77th. Street, City.

Dear Sir:-

I should like to see you sometime Saturday morning,  
if convenient to yourself, with relation to your arc lamp shipped  
to Mr. Hatchelor.

I have a communication from him in which he requests me  
to see you on the matter.

Very truly yours,

J. A. E.  
J.

1883-10-19

October 18th.

3

Paul O. Nyer, Esq.

Metropolitan Hotel,

Kansas City, Mo.

Dear Sir:-

Your two interesting epistles of the 14th. inst. were duly received, and I certainly think that you deserve a pretty medal for your bravery, and have no doubt but that your exploits will find a place in your Country's history. To face the braves of the West most certainly requires a man of your spirit, and it is for that reason that you were chosen for the onerous and risky enterprise which you now have in hand. All I hope is that if the worst should occur that you will leave such directions as will enable us to dispose quickly of any balance of account that may be still be due to you in this office.

When you get through at Kansas City return from the western wilds to the civilized and fertile regions of Kentucky and finish your canvass at Naysville.

Meantime, trust in God and keep your powder dry, and remember that the man who gets his hand in his coat-tail first has the best chance.

Very truly yours,

*S. Insull*  
7.



1883-10-19

October 19th.

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I have your favor of the 10th. inst.

Mr Edison thinks that what you propose for Shemokin  
would do very well.

Will you please let me know as early as possible when  
you think you will be able to start at Lawrence?

Have you the ampere meters and the feeder indicators  
there?

Very truly yours,

Sam. Insull  
J

1883-10-19

October 19th.

3

J. C. Tomlinson, Esq.

City

Friend Tomlinson:-

I enclose you herewith a letter from George H. Mackellar with relation to the claim of Charles E. Roesap.

We owe Charles E. Roesap about \$1,400., and which we proposed paying him if he had not taken this means of bringing it to our notice. What he refers to as a compromise or account never took place at all. Now if we were to let Charles E. Roesap sue, it would take him a certain time to win his suit and would also cost him money in addition. What I want to get at is about what it would cost him, and also how long it would take, under the most favorable circumstances, to gain his suit? Then I propose making a settlement with Mackellar or having you do so for the amount of \$1,400., less what it would cost Mr. Roesap to sue us, and I will extend the payments over the same period as it would take him to win his suit, in fact I propose getting even the the young gentleman. What he claims is an amount which Mr. Edison made him a present of. If you are anywhere near Mackellar's office to-morrow you might call and see him and show a little fight, and state that

1883-10-19

2

the letter has come into your hands in the absence of Mr. Edison and his private Secretary.

Very truly yours,

Edison

1883-10-19

October 19th. 8

W. J. Jonks, Esq. Manager,

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

I shall be glad to hear from you as to when you will  
be prepared to take over the station and run it independent of  
any assistance from my people.

Very truly yours,

W. J.  
J.

1883-10-19

October 18th.

3

A. E. Beach, Esq.

201 Broadway, City.

Friend Beach:-

Will you proceed with the publication of the article on "storage battery". One alteration, however, should be made on the seventh line of the seventh page of manuscript, change the figures 10 to 37, as they ought to read 37 instead of 10.

Can you manage to publish the article in your next issue, as we should like to copy it from your paper into the next Bulletin to be issued by the Edison Electric Light Company, but of course we cannot do so until after your publication of the article has taken place?

Very truly yours,

T. A. E.  
J.

1883-10-19.

October 18th. 3

W. Ward Leonard, Esq.

care Edison Electric Illuminating Co.  
Brockton, Mass.

Dear Sir:-

Your letter of the 13th. came duly to hand.

The report you sent me is exactly what I want.

With reference to carrying three wires into a house, I think it is necessary in small plants to divide the lights partly on to the "A" and partly on to the "P" side.

With reference to your complaint that it is impossible to see how many lights are on one side and how many are on the other, the variation in the amperes meter every evening ought to show you what you want in this connection.

Very truly yours,

J. A. E.  
J.

1883-10-19

October 19th. 3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Referring to your favor of the 4th. inst., the reason that we charge so much for our 300 light machine is that we have so few orders that it is impossible for us to sell cheaper. In addition to the more cost of the machine, we have to stand all the heavy experimental expenses at the Machine Works, as owing to troubles I have had with the Light Company I decided I would not put in any payments to them for this kind of work.

Very truly yours,

J. A. E.  
J.

1883-10-19

October 19th. 3

N. W. Pratt, Esq.

care Babcock & Wilcox Co.

30 Cortlandt Street, City.

Dear Sir:-

Mr. William Burrows, Freight Broker, of 46 Broadway, called on me this morning soliciting our freight, and mentioned your name as a reference.

We have a very great deal of freight, and in order to get good rates and proper attention, I have for sometime been thinking of the advisability of putting it into the hands of a broker.

Will you please advise me what you know of Mr. Burrows, and what your Company pay him for any business he may transact in the business above referred to, and by so doing you will very greatly oblige,

Yours very truly,

N. W. P.  
7

October 20th.

3

Otto A. Moses, Esq.

City.

Dear Sir:-

I have received from Mr. Batchelor a letter dated October 5th, in which the following paragraph occurs:-

"Now about Moses lamps, I have written Moses twice but get no answer. It was understood by Navarro and myself and Moses that they should send me 6 lamps to Antwerp and the models to France to manufacture, on this I told Bergmann that they would send me 6 lamps. Now the fact is I have received here 6 lamps in Paris, and I don't know whether Moses wants his patents protected, as I cannot get a word from him. In the meantime there are people trying for are lamps. Will you please tell Moses about this and if I don't get any answer from him, I shall simply put them up here and he must look after his patent interests himself. Of course there is no question about the price, but the people here have paid for these lamps, and feel hurt because I won't let them put them out to the public."

Will you please let me have your answer to same at your

1883-10-20

2

early convenience, so that I can reply to Mr. Batchelor's letter.

Very truly yours,





1883-10-20

October 20th. 3

W. D. Rich, Esq..

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have your letter of the 18th. inst. and your telegram of ~~the 18th~~ 19th date saying that you had received the sketch we sent you.

In reply we would say that the long upright iron door can be put in party wall with safety by placing a tight wooden door outside of it. I attach a sketch and explanation which I trust will make the matter clear, and convey to you the way in which we understand the matter and our solution of the difficulty, which latter we would prefer adopting instead of lengthening the boiler room, and we trust you will give it your consideration and avoid making the extension referred to.

In reference to grate bars for the Brockton ~~boiler~~ ~~boilers~~ we have to-day sent to Mr. Sprague a bill of lading, and they went forward on the 18th. inst. We have an invoice from Messrs. Babcock & Wilcox charging us with these bars, and as the cost is \$200., we shall be glad to know, if, in your opinion, we should pay the amount. We think we understood you to say that there was some defect in the bars supplied with the boiler, and that these

1883-10-20

2

had to be sent to replace them. If this is the case, it is our  
desire to refute the charge.

Very truly yours,

*Lak*  
J

Enclosure, b.

1883-10-20

October 20th.

3

C. H. Cooke, Esq.

Globe Hotel,

Syracuse, N.Y.

Dear Sir:-

We have received your letters of the 17th. inst., together with map and canvass of Auburn. When we are through with the former we will return it to Mr D. M. Osborne.

We wired you to-day to canvass Hudson and Poughkeepsie on your way to New York.

In reference to counting the number of lights in each store once on Saturday night in order to get the difference in the amount of consumption on that evening from the balance of the week, we consider that your canvass should embody this information, and shall be glad if you will always send it to us in places where there is such a difference as you mention.

Very truly yours,

*2ab*  
*7*

1883-10-22

October 22nd, 1883.

Gustav Seldan, Esq. Supt.

Edison Machine Works,

104 George Street, City.

My Dear Sir:-

I find that your system of charging everything up to stock and then charging it out again to various orders on which the machines are being <sup>made</sup> ~~used~~ does not work at all well so far as my office is concerned. We are having endless trouble in trying to "decipher" the alleged memorandum material used, which memorandums are prepared by Mr Dodge. If the system, which I inaugurated on your suggestion, is persisted in it will result in an extra expense of about \$50. a week so far as my clerical force here is concerned, and such an expenditure is entirely out of the question. <sup>There</sup> ~~They~~ have come to the conclusion that the old system is by far the better of the two, and I write to inform you of this, as when I get back to town the end of this week I wish to arrange with you to return to the old method of stock keeping.

Furthermore, when a few days back Mr Edison enquired of me the method now pursued as to this matter, I informed him that we were dependent for the charging of our material entirely to memorandum prepared by Mr Dodge, and Mr Edison politely informed me that under such circumstances he would not consider my books worth a "damned", as he has absolutely no confidence whatever in any

1883-10-22

2

statements prepared by Mr. Dodge. He gives as his reason for this, that Mr. Dodge made so many mistakes while engaged in the mapping department of the Edison Electric Light Company, and all of which mistakes were of such a character that it would be impossible for him (Mr. Edison) to have any confidence whatever in the work of any one capable of ~~committing~~ making such mistakes as I refer to.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and appears to be "T. Edison".

1883-10-24

October 24th. 3

C. F. Brackett, Esq.

Princeton College,

Princeton, N. J.

Dear Mr. Brackett:-

I beg to acknowledge with thanks your letter of the 18th. inst. together with your letter of the 11th. inst., which we once before received without signature.

I should take great pleasure in going to Princeton to see your dynamometer in action, but unfortunately my present press of business prevents my leaving New York. I have asked Mr. Clarke, the engineer of the Edison Electric Light Company, to go to Princeton and examine the instrument.

Very truly yours,

Lake

1283-10-24

October 24th, 1893

Gustav Seldan, Esq. Supt.

104 George Street, City.

Dear Sir:-

In relation to the flexible cable used on the "H" dynamos, we consider that this should be more thoroughly insulated. The present insulation is liable to wear off and cross the poles on base, and we shall be glad if you will give this matter your consideration.

Yours truly,

*W. H. King*

1883-10-24

October 24th.

3

Messrs. Hermann & Co.

353 Avenue B, City.

Dear Sirs:-

We are informed that you are sending fixtures to Brockton wired with white wire without any tape. This will cause very serious trouble, as the covering absorbs moisture and causes a decided leak, and since this defect has been remarked by everyone who has had any experience with the wire, we consider it very bad policy on your part to supply such material, but feel satisfied that when we call your attention to the matter you will have it adjusted.

Very truly yours,

*J. A. H.*



1883-10-24

October 24th. 3

W. J. Jenks, Esq., ~~Manager~~,

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your favor of the 17th. inst. to Mr. Edison,  
I beg to say that it is his intention to go to Brockton just as  
soon as he can leave New York.

For the past few days he has been confined to his bed,  
but we expect to see him out again to-day or to-morrow.

Very truly yours,



1883-10-24

October 24th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

In relation to safety catches, we beg to say that the white plugs are all right. Bergmann sent a lot of bad plugs to Brockton sometime ago, and in our opinion these ought to be returned. If you will hunt these up and send <sup>them</sup> back again we will have them replaced by new ones. ~~Please~~ Please notify us when you do so.

Very truly yours,

*Gale*

1883-10-24

October 24th. 3

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to return herewith letter from Mr. Schwenk in reference to Mt. Carmel received with your favor of the 20th. inst.

We are having a canvass made of this place with all possible despatch. Our canvasser is at the moment in Hazleton, but will in a day or two go to Mt. Carmel and send us the necessary data to get up plans and estimates.

In regard to the people at that point having secured the ground for a central station, we consider it rather a mistake to be too premature about a matter of that kind, as the location of a lot may make a considerable difference in the amount of our estimate.

In regard to my going to Mt. Carmel to stake off the building or for other purposes, at the moment it is impossible for me to leave New York, and in any event I hardly think that the laying out of the building is such a serious undertaking as to require my personal attention.

We will rush this matter through just as quickly as possible, and write you again when we have something definite in connection with the estimate to submit.

Very truly yours,

Enclosure, 2.

*J. A. G.*

1883-10-24

October 24th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to enclose a letter from Mr. W. G. Sticker the  
Chief Burgess of the town of Milton, Pa., in which he enquires  
about the cost of the electric light. As it is in your terri-  
tory <sup>you will</sup> we presume attend to it.

Very truly yours,

*T. W. H.*

Enclosure, H.

1883-10-24

October 24th. 3

M. P. Moore, Esq.

City.

Dear Sir:-

In regard to Mr Oakley, I shall be glad to do what I can to get him a situation.

I think the German Company asked for a motorman, and it would be a good idea for Oakley to go to Bergmann's and Goerck Street and learn all about making motors. We would also have him coached in the interests of the commercial part of the business, and when he has completed his education we can then send him to Berlin.

Very truly yours,

*Tracy*

1883-10-24

October 24th. 3

W. D. Rich, Esq.

Care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We beg to enclose you herewith duplicate bills of lading together with shipping list of the Fall River boilers which went forward on the 22nd. inst.

With relation to firebrick, we would like to know if you use any firebrick lining in your stack foundations? You will notice that in all of our estimates we include 14' of brick stack with this description of lining, but if in practice this arrangement is not observed and if you do not consider it necessary we would like to know about it in order that we may in future leave it out. *of the estimate*

Very truly yours,

*Zak*

1883-10-24

October 24th. 3

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I am in receipt of a letter from Mr. Sprague at Brockton, who says that they had some trouble on the night of the 16th. inst. on account of the exhausts from the dynamo overflow pans leading into the engine exhaust. The drip pipe rises after leaving the exhaust a considerable amount and the result is that a quantity of water always collects in the exhaust and upon starting up this is sometimes forced into the overflow pans on the dynamo and large quantities of water are thrown out from the exhaust, after being lifted not less than thirty feet. While I was at Brockton this same trouble occurred twice, and I am afraid that some day the consequences will be very serious. The drip should fall instead of rising, so that the water might run off, and I wish you would kindly give the matter your immediate attention.

Very truly yours,

*J. A. G.*

1883-10-24

October 24th, 1883

Hall Engine Co.

Erie, Penna.

Dear Sirs:-

Replying to your favor of the 17th. inst. in relation to our making a trial of one of your engines, we beg to say that we should be glad to make a test of a 8 1/2 x 12 engine, which would require a 50 inch pulley. It would be necessary for us to keep this engine one month, and if you are agreeable to bear the expenses in connection with the test, Freight &c. we will be glad to make the trial.

Very truly yours,

*J. L. King*



1883-10-24

October 24th, 8

John Campbell, Esq.

Post Box 637,

Pittsburgh, Penna.

Dear Sir:-

I have your letter of the 16th. inst., and in reply regret to state that there is no position here which I can offer you at the present time.

I shall keep your name before me and shall be glad to do anything for you that I can in my own business, but outside of that

I fear my influence with Mr. Carrett would not attain the end you

desire, and I personally prefer not communicating with him for this object.

Very truly yours,

J. A. L.

1883-10-24

October 24th, 83

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 21st. inst., and in reply would say that we have referred that portion which relates to the safety catch thumb nuts to the proper parties for their attention, and have written Mr. Molden in regard to the flexible cable on "the" dynamos being more thoroughly insulated,

It is not our intention to send a lightning arrester for Lawrence, as the system is underground and does not require it.

The meter scales are quite large enough to weigh 100 light meter plates.

Very truly yours,

*Tak*

1883-10-24

October 24th. 3

William Burroughs, Esq.

40 Broadway, City.

Dear Sir:-

Would you kindly call at this office any time you are passing and can find it convenient to stop in, as I want to see you about placing our freight in your hands.

Very truly yours,

*J. A. L.*

1883-10-24

Very truly yours,

October 24th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 18th, inst. in relation to the connecting up of the fields of the 400 and 500 light dynamos together, and in reply beg to say that we will have these boxes made so that they will go together.

In regard to having feeder switch and safety catch holder in one piece, I do not think this would always be found to work well and should advise keeping them separate.

Very truly yours,

Jaly

(823-10-24)

October 24th.

George W. Wilbur, Esq.

Post Office,

Mt. Carmel, Pa.

Dear Sir:-

We have your letter of the 21st. inst., and in reply would say that your canvass books are not quite completed, but we hope to be able to send them to you in a day or two. We ordered them to be made with 150 pages and also instructed the printer to leave more room for "Remarks" and "Nature of Business."

The Mt. Carmel people are very anxious to have an estimate for an installation at that place, and we wish you to get the canvass in the office here at the earliest possible moment.

Very truly yours,

*Gale*

1883-10-26

October 26th. 3

William Schwenk, Esq.

Mt. Carmel, Penna.

Dear Sir:-

We have your letter of the 20th. inst., and in reply beg to say that the canvass of Mt. Carmel will arrive in this office in a day or two. The maps will then be put in shape and the estimate made and forwarded to Mr. Shaw in a very short time.

Untill we know the size of the plant required, it is impossible for us to make any comments as to the engines or other material that may be required.

Very truly yours,

Jae  
5

1883-10-26

October 26th. 3

Major S. B. Eaton,

City.

Dear Sir:-

Referring to the attached we beg to say that there was no mistake in the plans of the Fall River building. We had this building so arranged that it would accommodate the extra boilers necessary to be supplied when the time came for increasing the capacity of the plant, but this we arranged in such a manner that to clean them out it was necessary to enter them from the top which is a very common thing to do. The Fall River people thought that they would prefer to have them so arranged that access could be acquired from the sides, and as it was merely a question of obliging these gentlemen we decided to yield to their views and consequently gave instructions to have the building lengthened six feet, which has been done.

Very truly yours,

Zac  
J

1883-10-2

*Hartford*

October 28th.

3

Messrs. Harris & Robinson,

Room 2, Frost Co's Building,

Hartford, Conn.

Dear Sirs:-

We beg to enclose you herewith estimates for the installation of Edison Electric Light Central Station plants at Hartford and Southington, Conn.

The former is for a 3206 lamps capacity with street installation for 4462 lights and amounting to \$72,643.20 and the latter for a plant of 950 lamps capacity with street installation for 970 lights and amounting to \$26,636.40.

Our bid for the street installation in the Southington estimate is ~~set~~ based upon the same conditions as set forth in our letter to you under date of the 22nd. inst. You will notice that the cost per lamp in this estimate is \$21.71, which is \$7.44 less per lamp than the 300 light plant, and further it only costs \$3,142.71 to increase the capacity of this plant from 300 lights to 950 lights, which is almost three quarters larger. In view of these facts we would strongly advise the adoption of the 950 light estimate as being the one more satisfactory in all respects.

In relation to the Hartford estimate, this is based upon the assumption that the central station will be placed upon



1883-10-26

2

the \$10,000. lot, the size of which is 60 x 90 and situated North of Alyn Street between Ann & Trumbull Street. We explained to your Mr. Harris, when he was in New York, that all our plans for Hartford had been gotten out upon the assumption that the lot we were to use was to be 60 x 90, and that if the 40 x 90 lot was substituted it would necessitate our cutting off a portion of the building which would admit of the plant being increased to 4800 lights only, unless it were possible to get more land when required at the back, so that the building might be extended. The cost per lamp of this estimate is \$22.70 which, without taking into consideration the very large number of lights covered by our proposed district, namely, 4492, is we consider a low bid.

We omitted to say in the foregoing part of this letter that we enclose statement of the daily running expenses and probable profits on a capitalization of \$30,000. for a 600 light plant at Southington. Were you to install the 650 light plant, the increase in the daily running expenses would be so small as to hardly be visible, while the per cent for dividends on the capital invested, which latter need not exceed \$30,000., would of course be much larger than that shown on the enclosed statement.

Under separate cover we send you the exhibits referred to in the enclosed estimates together with a plan of the arrangement.

1283-10-26

3

of the Southington station.

Very truly yours,

*Lali*  
J

Enclosure.

1883-10-26

October 28th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I enclose you herewith letter from Mr. Batchelor of  
Paris in reference to the possibility of working more than two  
amperes per millimetre on the underground conductors &c.

Please give me full replies to all of Mr. Batchelor's  
questions, in order that I may transmit them to him, and also  
return his letter with your memorandum.

Very truly yours,

*W. H. P.*

Enclosure, A.

1883-10-26

October 26th. 3

Frank H. McCornick, Esq. Pres.

Edison Electric Illuminating Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

We are in receipt of your favor of the 23rd, inst., and in reply beg to say that we are not in the least surprised to hear of the number of broken lamps in connection with your system at Sunbury.

We have received information from our agent, in constant, whom we sent to inspect your plant and ascertain the cause of such breakage, and we find that you have been running these lamps not at ten candle power as they are intended to be run but much nearer twenty. If this course is pursued you cannot but expect to have a very large per cent of breakage. The lamps we sent you were some of those made up a short time since at the factory and the best that we have yet produced.

When Dr. Dotzler was here in New York he visited this office, and during the course of conversation he looked at our lamps and asked the candle power, remarking at the same time that they were not as bright as the light you were supplying at Sunbury. Those lamps of ours were giving at least eighteen candles, so it is therefore quite plain to us what the cause has been to result in

1883-10-26

2

such a large breakage of lamps as you report.

Our agent, who was in Sunbury a few days ago, advises us that Mr. Harr gave positive instructions to the engineer in charge of the Sunbury station to run the dynamos to their fullest capacity. He (our agent) explained to the engineer the disadvantages attendant upon such a proceeding, and regulated the lights.

If you will supply your customers with a quantity of "of light equal to ten candles for each lamp installed, you will find that your breakage will decrease very rapidly. It is much cheaper if customers want more light from a single lamp to supply them with an article designed for a more extensive illumination, but to try and get twenty candles from an article which is only intended to supply half that number is fatal to the long life of the lamp.

Trusting that in future you will regulate the light properly, we are,

Very truly yours,

Tae

1883-10-26

October 26th. 3

Thomas P. Conant, Esq.

Care Edison Electric Illuminating Co.

Shanghai, Peking.

Dear Sir:-

This will introduce to you Mr L. C. Walker, whom I am sending to Shanghai to obtain whatever information you can give him in reference to our system of house wiring or anything else he may desire to know. Mr Walker will bring with him samples of the new wire which we are going to use, and he has such instructions from me that he understands the application of it, and I shall be glad if you will give him all facilities possible to enable him to obtain whatever information he requires.

Very truly yours,

Jae  
G

1883-10-26

October 26th. 3

W. F. Bouty, Esq. Pres.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

We have your letter of the 23rd. inst. complaining that the system at Shamokin has been working badly.

We received a letter from Mr. Conant explaining the cause, and it appears that a number of trees have been getting mixed up with the wires and causing crosses on the line. This of course is a matter which can be very easily remedied by having the trees either removed or trimmed, so as not to interfere with our system.

We were also advised by Mr. Conant that the governor on one of the engines was working badly, and we wired him to have it taken off and the flange brightened up, which will relieve all trouble.

We do not see that anything has occurred which would necessitate our sending anybody to Shamokin, as the parties there at present are fully competent to deal with the difficulties which have arisen.

Very truly yours,

*W. F. Bouty*

1883-10-28

October 28th.

J. F. Rogers, ~~Esq.~~

68 India Square,

Boston, Mass.

"Dear Sir:-

We have your letter of the 24th. inst., and must apologize for the delay which has taken place in supplying you with the duplicating ink. It is an article which we have not dealt in for such a long time that the recipe became mislaid and had to be hunted up, which took some time.

We have, however, much pleasure in stating that we have forwarded to your address by express yesterday one bottle of this ink. When you require any more ~~of this ink~~ we will be able to supply it more promptly.

Very truly yours,

*Edw*  
J



1883-10-29

October 29th. 3

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 20th. inst. in reference to a motorman, and in reply would say that we very much regret the delay which has taken place in furnishing you with such a person, but as this kind of a man is not picked up anywhere and we have had considerable trouble in finding one. We have pleasure in stating that we have, however, succeeded in securing the services of a first class motorman who has had charge of the Wosdell plant for some time past, and <sup>he</sup> will report for duty at Lawrence not later than the 1st. inst., and before that if at all possible.

Very truly yours,

J. H. Lord

1883-10-29

October 20th.

F. V. Upton, Esq.

East Newark, N.J.

Dear Sir:-

In relation to broken lamps received at Brockton, do you not think it would be a good idea to pack a half a dozen lamps and handle them roughly in the Laboratory, that is experiment on different manners of packing?

Yours truly,

*W. J.*

1883-10-29

October 29th.

3

*P. J. Garrison*  
W. J. Garrison, Esq.

137 Federal Street,

Boston, Mass.

Dear Mr. Garrison:-

In reply to your letter of the 22nd. inst.,  
asking about the Dart Electric Railway, I should advise you to tell  
your friend not to put a cent into it. It is simply a "catch".

Very truly yours,

*J. A.*

1883-10-29

October 29th, 3

George H. Hopkins, Esq.

137 Temple Court, City.

Dear Mr Hopkins:-

Many thanks for your letter of the 24th. inst.  
in reference to the Sweet high speed engine now being exhibited at  
the Fair of the American Institute. I shall have much pleasure  
in going to see it in operation.

Very truly yours,



1883-10-29

October 26th, 1883

Gustav Soldan, Esq. Supt.

104 Cocker Street, City.

Dear Sir:-

There is a paragraph in Defect Report No. 34 to the effect that the wire bands binding the armatures got loose and came off on the machine which we installed at Harrison, Havemeyer & Co. shortly after starting. These armatures should have wire bound around them as in the central station machines. We never had trouble after we did this, and if you want any further explanation Billy Wright can give it to you.

Yours truly,

*Jae*

1883-10-29

October 26th. 3

A. Stuart, Esq., Secty.

Cincinnati, Ohio.

Dear Sir:-

In order to complete our map of Springfield, Ohio, it is necessary that we should have a correct chart of that town. We have written to the City Engineer twice asking him to make a tracing of his map, but without result other than that our letters have remained unanswered. Could you in any possible way obtain what we require, as it is absolutely necessary that we should have it before we can complete our work, and we shall be glad to hear from you at the earliest possible moment.

Very truly yours,

*S. J.*  
*P. S.*

1883-10-29

October 26th. 3)

W. M. Dooty, Esq.

Shamokin, Penna.

Dear Sir:-

We beg to acknowledge with thanks the receipt of your favor of the 25th. inst. enclosing Mr. John Mullen's check on the Shamokin Banking Company for \$1,000. on account.

In relation to putting your plant in proper shape, we have already written you on the subject, and trusting that you are meeting with no further difficulties, we beg to remain,

Very truly yours,

*Jue*  
*g*

1883-10-31

October 31st.

3

William O. McDowell, Esq.

120 Liberty Street, City.

Dear Sir:-

I beg to acknowledge receipt of your letter of the 27th. inst., and in reply would say that there are so many calls made upon my purse and as I am not interested in the Edison lamp factory, except as a stockholder, I do not feel that I can comply with your request.

I return the list herewith, and beg to remain,

Very truly yours,



Enclosure.



1883-10-31

October 31st.

3

John L. Rogers, & Co.

63 India Square,

Boston, Mass.

Dear Sirs:-

We are pleased to see that by your letter of the 27th. inst. you have received the duplicating ink.

In relation to an invoice, we cannot set a price upon what we have forwarded you, but will arrange with some stationer in New York for the manufacture of the article and will advise you as to where it can be procured in future.

Very truly yours,

*Sal*  
*L*

1883-10-31

October 31st.

3

E. S. Marsh, Esq.

21 East 23rd. Street, City.

Dear Sir:-

Referring to your favor of the 24th. inst., I beg to answer as follows:-

FIRST. The Phonograph is an invention of mine, but nothing has been done with it for the last few years, as my time has been so fully occupied with other matters that I can hardly say whether I shall be able to give attention to it further on.

SECOND. Electricity is already superseding and performing the present functions of gas and steam, but how long it will take <sup>us</sup> to ~~replace~~ the majority of the business it is ~~difficult~~ to say.

THIRD. I must refer you to the books for theories about the nature of electricity.

FOURTH. My laboratory is practically closed at the present time, and there is nothing of any considerable interest to a student being done there.

Very truly yours,

*Edison*

1883-10-31

October 31st, 8

W. Preston Dix, Esq.

230 West Main Street,

Louisville, Ky.

Dear Sir:-

Will you please send us a plan of the lot on the corner  
of Greene and Alleys between Second and Third Streets, upon which is  
situated an old brick <sup>dwellling</sup> ~~dwelling~~ 74 x 160, price \$11,000. together  
with sketch of same showing the position of the house in relation  
to the boundaries of the lot in accordance with the spaces  
marked for distances on the sketch below.

Very truly yours,

*Zaa*  
*I*

1883-10-31

October 31st. 2

E. H. Ford, Esq. Trans.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 27th. inst., and in reply beg to say that we have made inquiries from the makers of the balance, which we sent to Lawrence, and find that you are right in stating that the capacity does not reach 300 grammes.

We will order for the use of the Lawrence Company a No. 8 balance to replace the one you now have, which latter we can use where 100 light meters are not called into requisition.

In relation to meters, we understand that your Order No. 1 called for fifty meters of 12 lights, twenty five of 25 lights and five of 30 lights, but inasmuch as we considered this arrangement both unequal and insufficient, we deemed it advisable to make a new arrangement and supply you with a certain number of each of the different units, the aggregate cost of which would be the same as those which we first proposed to supply. We shall, however, have much pleasure in complying with your request to exchange the 12 light meters for an equal number of 25 lights capacity and the 25 light meters for an equal number of 30 lights capacity. We will also have the necessary plates and rubber parts

1283-10-31

2

for the 12 light meters sent you without delay.

We presume you understand that the capacity of these meters is gauged upon the assumption that each light to be recorded by them is of 10 candle power, in other words, a 6 light meter is capable of recording ten 10 candle lights, a 12 light meter records twenty 10 candle lights, a twenty five light records forty 10 candle lights, a fifty light records eighty 10 candle lights and a one hundred light meter will record one hundred and sixty 10 candle lights.

Very truly yours,

Lab  
D

1883-10-31

October 31st. 8

W. H. Dwalley Jr. Eng. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We are in receipt of your telegram of to-day's date stating that Kruesi's men have been ordered home for ten days, and in reply to your query as to why you are being neglected we have to say that inasmuch as the tubes will not be ready for ten days, we do not see the necessity of keeping a lot of men laying idle in Fall River and paying their expenses. You can rest assured that we are fully alive to the necessity of pushing your work and this we are doing to our utmost capacity, but we must really ask your kind co-operation which you can extend to us by exercising a little patience and placing a little more confidence in our capability of keeping the promises we have made to you, namely, to have the Fall River installation completed at the earliest possible moment.

Very truly yours,

*Edison*

1883-10-31

October 31st. 3

J. M. Dooty, Esq., President.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

I have your letter of the 20th. inst.

I am very sorry that you should object to the use of the double wire at Shamokin without first enquiring of me as to the facts. The New York Board of Fire Underwriters do not trouble us in the least, except inside of New York City. In towns like Shamokin they do not interfere with our business at all, as the property involved is comparatively small and, furthermore, I am confident that eventually they will sanction the use of the wire sent you. So far they have not refused to sanction its use, and the matter has simply not been brought before them. I think that you make a great mistake to refuse to have it used at Shamokin.

Very truly yours,



1883-10-31

October 31st.

3

C. E. Speirs, Esq.

care D. Van Nostrand,

23 Murray Street, City.

Dear Sir:-

Will you please let me know per bearer where we can  
find "Archivos of Pharmacie"?

Very truly yours,



1883-11-01

Worcester, Mass.

3

Thomas P. Conant, Esq.

Worcester National Hotel,

Shamokin, Penna.

Dear Sir:-

I send you by this mail a copy of the questions on  
dynamoes and engines and boilers and shall be glad if you will  
occupy your time by contributing to the literature of this estab-  
lishment by answering same.

Very truly yours,

SJ

1883-11-01

November 1st.

3

H. W. Doubleday, Esq.

Edison Exhibit, Southern Exposition,  
Louisville, Ky.

Dear Sir:-

I send you herewith a set of questions on the motor,  
dynamo, engine and boiler. Will you please answer same to the  
best of your ability and them back to us at your convenience.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and cursive, appearing to read 'Edison'.

1883-11-01

November 1st. 3

T. H. Dwyer, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Your favor of the 21st. ulto, came to hand this morning, and the tone of it surprises me extremely. You refer to Mr. Kraess subjecting you to delays as if he was doing so intentionally. Cannot you understand that it is impossible for his men to be of any use in Fall River until he has the <sup>Supplies</sup> ~~tools~~ there ready to lay. We are just as anxious as you are to have the plant installed quickly, but we must protest most decidedly against the frequency and unreasonableness of your complaints..

Allow me to suggest that it is quite premature on your part to ask on the first of November how we propose to get your plant running by the end of November. I would remind you that you were warned before the contract was closed that there would be considerable delay unless your Company guaranteed the cost of the tubes, so as to enable us to order same in anticipation of our closing the contract, and I would further remind you that you promised to send us such a guarantee and that you failed to do so, and any complaint that you now have to make as to the delay should be made to yourself for failing to send us the guarantee above

1583-11-01

2

referred to and not against us.

I fully agree with you <sup>that</sup> the importance of having your tubes completed before frost sets in has been sufficiently explained upon and that a repetition is entirely unnecessary, and I would again beg of you to exercise a little patience, inasmuch as <sup>working</sup> only twenty three days have elapsed since the contract with your Company was closed.

We are unwilling to give any such bond as you ask for. The work will be done in the best manner possible and will be started as soon as possible. The laying could have commenced at least five days ago if the guarantee from you as to the tubes had been sent at the time we asked for it.

To talk of Mr. Kruesi assuming the responsibility of putting off laying the tubes, seems to me an absurdity. It is to my interest and to Mr. Kruesi's interest that the laying should be commenced as early as possible, although my assertions to this effect do not seem to carry any weight with you.

As to none but competent men being employed, I have yet to find that it has been our habit to employ incompetent men, and the troubles that we met with in Lawrence and Brockton are such troubles as we fully expect to meet with at Fall River.. If you

7883-11-01

can tell us how to avoid them I am sure we shall be very glad to  
receive your advise in the matter.

Very truly yours,

Jah

L

A large, stylized handwritten mark, possibly a signature or initials, consisting of a large 'C' or 'G' shape with a horizontal stroke.

1883 71-03

November 27d. 8

W. Doran, Esq.

General Supt. of Construction,  
Western Union Telegraph Co.  
125 Broadway, City.

Dear Sir:-

Mr J. Hibler, of 137 Sherman Avenue, Newark, N. J.,  
has applied to me for a position in connection with the erection  
of electric light lines, and states that he has had thirteen years  
experience as foreman of gangs, and refers me to you for informa-  
tion as to his capabilities. Can you so far oblige me by giving  
me this information?

Very truly yours,

*W. L.*

1883-11-03

November 3rd.

3

D. H. Bates, Esq.

Western Union Telegraph Co.

103 Broadway, City.

Dear Sir:-

Ed J. Hibler, of 137 Sherman Avenue, Newark, N. J., has applied to me for a position in connection with the erection of electric light lines, and states that he has had thirteen years experience as foreman of crews, and refers me to you for information as to his capabilities. Can you so far oblige me by giving me this information?

Very truly yours,

Zac  
L

1883-11-03

November 3rd.

3

Richard Vause, Esq.

Natal Mercury,

Durban, Natal.

Dear Sir:-

Referring to your favor of the 17th. September, which has been forwarded to me by the kindness of Sir Charles W. Riley, the Consul General of the Orange Free States, Philadelphia, Penna., I beg to state that possibly my Phonograph might be available for the purpose for which you suggest. It would, however, require considerable improvement before being put to such use, and my time at the present is so fully occupied with other matters that I am afraid that this will have to stand over until I have more leisure at my command.

Yours very truly,

*J. H.*



1883. 11. 03

November 3rd. 8

W. S. Andrews, Esq.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr. Gayley, the meterman whom I sent on to Lawrence, was at Roselle for some time. He seemed to answer most of the questions very well, but he had not had that experience with our work which would qualify him to such an extent as Conant.

If Mr. Lord should make any remark with relation to him you might say that Mr. Conant will go to Lawrence shortly, as immediately I can get him away from Shamokin I propose to send him to you.

Very truly yours,



1883-11-03

November 3rd. 3

Thomas L. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

I am in receipt of your letter of the 31st. October, and I send you herewith map of the town of Shamokin, and shall be glad if you will trace thereon exactly where the present lines are run, and where the feeders join the mains, also indicate on the map the position of the proposed new line with the position and probable number of maximum lamps at each point marked thereon. We can then have the sizes of wire determined here in the office. Please attend to this right away and we will return the map to you in the course of a day or so.

Very truly yours,

*Yours*  
*J*

1883-11-03

November 3rd, 1883.

W. H. Swolley, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We are in receipt of your letter of November 2nd., and will have the two 330 light dynamos shipped forthwith.

The terms of payment on which we sell to the Isolated Company are cash on the delivery of the machines. Will you please advise us as to how we are to get payment from you?

Very truly yours,

Edison Mach Co

By S. J.

1883-11-03

November 3rd. 3

E. H. Ford, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr Oakley, our motorman, left here the day before yesterday for Lawrence, and I shall therefore be glad if you will kindly comply with your promise to send me a check for \$10,000.

Yours very truly,

24  
I

1883-11-03

November 3rd.

3

Societe Electrique Edison,

33 Ave de l'Opera,

Paris, France.

Dear Sirs:-

I have your favor of the 17th. October, and in reply would beg to enclose you copy of a letter which I have received from Mr Francis R. Upton, the Manager of the Lamp Company.

I would point out to you that no guarantee has ever been <sup>our</sup> given that the life of lamps would be of 1000 hours duration;

I cannot possibly conceive how our lamps should have been subject to such heavy breakage, unless they were run at very high candle power, as the lamps are of precisely the same character as we are now using in this country and we hear no such complaints here.

Any test as to the life of lamps would of course have to be made in a regular manner, with a constant electro-motive force and the lamps run at the volts they are intended for.

Very truly yours,

Jas  
L

Enclosure.

1883-11-05

November 5th. 83

W. L. Dwelley, Jr. Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

In a letter addressed to Major Eaton by Mr. Spencer Gordon of the New England Department of the Edison Electric Light Company the following occurs:-

"Some of our large stockholders are builders by trade and criticize the character of the masonry brickwork that is going into the building. Mr. Dow told me within a few days that one of the best masons in town said he thought it was shameful to put a building together as this is being constructed."

Our Superintendent, Mr. Rich, was here yesterday and we drew his attention to the above, and he informed us that Mr. Jerome Gordon, one of your Building Committee who has taken an active interest in the work, has expressed himself as being perfectly satisfied, and he also stated that there was no reason whatever for the complaint. As we have not received from you officially any complaint as to the character of the central station work, we shall be glad to hear your views on the above remarks of Mr. Spencer Gordon's, as it is our desire that all our work should

1883-11-05

2

meet with the entire approval of your Company.

Very truly yours,

Zag  
I

1883-11-05

November 5th. 3

Paul R. Byer, Esq.

St. Cloud Hotel,

Canton, Ohio.

Dear Sir:-

Will you please inform me at your earliest convenience  
how soon you will be through in Dr. Stuart's territory, as I want  
you to go to New Orleans?

Very truly yours,





1883-11-05

November 5th. 3

C. H. Johnson, Esq.

222 Avenue H, City.

My Dear Sir:-

I had a talk with Mr. Edison last night with relation to the <sup>able</sup> ~~same~~ made for us by the Ansonia Company, and he requested me to see you about getting the same passed on and approved by the Board of Fire Underwriters.

I wish you would speak to him about the matter and take it in hand right away, as our central station business is seriously affected by the doubt existing as to whether the Board will allow us to use the tape.

Yours very truly,

S. J.  
P. S.

1883-11-05

November 5th.

3

W. H. Moore, Esq.

Rahway, N.J.

Dear Sir:-

I regret very much to hear that you are about to sever your connection with the Edison Company for Isolated Lighting, and it affords me very great pleasure to testify to your ability and industry in connection with the various matters that you have had in charge on my behalf.

Your trip to China and Japan on my account to hunt for bamboo or other fibre was highly satisfactory to me, as evidenced by the fact that you found exactly what I required for use in connection with the manufacture of my lamps. I was also very much satisfied with the services you rendered me during your connection with the Edison Machine Works, as purchasing agent, and have every reason to believe that you have given perfect satisfaction to the Edison Company for isolated lighting during your connection with them, but as to this matter, I have no doubt that they will be willing to speak themselves.

Wishing you every success, and again expressing my regret

1853-11-05

2

that you are about to leave our business, I remain,

Very truly yours,

*Jas*

1883-11-05

November 5th.

3

"Manager,"

Western Union Telegraph Office,

432 Broadway, City.

Dear Sir:-

Will you please have an American District Telegraph  
call put in Mr. Edison's apartments at the "Clarendon", 18th. Street  
and 4th. Avenue. If the man you send will ask for Mrs. Edison,  
she will give him instructions as to where the call is to be  
placed.

Yours truly,

A handwritten signature consisting of the letters 'S', 'I', and 'P. S.' in a cursive, stylized script.

1883-11-05

November 5th, 8

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I am very anxious to have Mr. Ayer go to New Orleans at the earliest possible moment, and shall be glad to hear from you as to how soon you can spare him. It is a matter of very great importance to us that he should be despatched this week, and we therefore trust that you will endeavor to make your arrangements to dispense with his services for the present accordingly.

Very truly yours,

*W. L. G.*  
*W. L. G.*

1893-11-05

65 Fifth Ave., New York Nov. 5th. 1893

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I cabled you the other day as follows, "Peculiar about 130; thickness about par, reputation unsalable, weakful", which according to my code with you you will understand as follows: Edison Electric Light Company stock about 130, Isolated stock about par, European stock unsalable, market generally very weak.

I have been waiting to see whether an advance would take place in the price of our stocks but there does not seem to be much chance of one at the present moment. The depressed state of the general stock market and the great shrinkage in values which has been going on now for months seems to have effected such outside things as Edison Electric Light Stock very much indeed. When the capital was increased to \$1,000,000., some few weeks back, the stock went down about seventy five points, which was of course to be expected owing to the increased capitalization. Isolated stock has greatly fallen until it has got to quite a low point. I had expected that in stead of a decline we should have had a rise in prices, and I based my belief on the improved state of our business, the development of the central station business in small towns and the excellent footing obtained in the first district, but of course the troubles in Wall Street, where every-

1883-11-05

2

thing has been going to the "dogs" for sometime past, besides one's calculations in relation to advance in prices, and under the circumstances I do not know exactly what to do for you, and consequently thought it best to cable you the state of the market.

I wish, on receipt of this, you would wire me in relation to the matter, inasmuch as I leave here for London on the 11th. December, and would not have time to do anything much for you if you wait to write to me. Of course when in London I shall run over to Paris to see you. I am going over primarily for the object of spending Christmas in London with my folks, as it is three years since I came here, and I think my business is in a better shape now than it has been at any previous time and therefore Edison will suffer the least possible inconvenience from my absence.

Now for a few remarks about our business.

Down Town Station. I do not know whether you have heard that the down town district went out one night last week, the lights were out for some two hours. The cause of the failure was given out to be that the safety catches had all melted in consequence of their being large enough to carry only the Summer load, and the man who had charge of the safety catches was made a scapegoat and discharged. Whether this was the exact cause of the trouble or not I do not know at present, but I will doubtless be able to tell you about it in person when I see you. I was away in Cincinnati at the time the trouble occurred, and therefore I am not at all posted as to the cause thereof. As I understand from Johnson

1883-11-05

first one feeder safety catch gave out, which threw the load on the other eleven, then another gave out and so on until there was only one feeder connected, which of course "busted." Sprague is now engaged with Edison down at the Central Station looking into the matter. There is no serious trouble, I do not think, and the district was running again all right two hours after. Although it may seem to you a little "gassing" for me to say so, yet truth compels me to record that the day after the breakdown we had more new applications for light than any day previously. There are now connected up in the First District over 10,000 lamps and our load in the evening is about 3,000, ~~and~~ the average lighting for the whole twenty four hours being about 1,100 to 1,200. When I come over in December I shall bring with me for your private information figures as to how the station stands. If the showing is very fine I will bring an official statement which you can make use of.

Out of Town Stations. We have now got running Sunbury, Pa. station, 500 lights, Shamokin, Pa. station, 1,600 lights, Brockton, Mass. station, 1,600 lights, Lawrence station 3,200 lights.

Fall River, Mass. station, 1,000 lights will be running about the end of November; Tiffin, Ohio station, 1,000 lights, will be running about Christmas; Newburgh, N.Y., 1,000 lights, will be running about the same time. These stations aggregate about a quarter of a million of dollars of central station contract work.

We have got a number of others coming along, and next Spring we shall undoubtedly do a very large business indeed in this kind of



1883-11-05

work, so you see that our anticipations of large business, when you were here, are about coming true, and I think by next Summer we shall have a great deal more than we can comfortably handle.

Machine Works. Soldan was put in Dean's place at the Machine Works. He has not got that enormous amount of power which Dean had, and I think it is a good thing that he should not have it. The office of the Edison Machine Works is at 65 Fifth Avenue, that is in our office here, and its finances and everything in relation to its business is running very well. We order material from here, and I make arrangements from here with the people we buy from. The Superintendent of the Works builds machines at Goerck Street and takes charge of his men and there his functions end. We had a thorough examination of the books made but there was nothing in them which we could call irregular. The only thing which we could not understand, and which we never as yet have been able to get at the bottom of, and which I do not believe we will ever get at the bottom of, is the enormous prices paid by Dean to his men on contract work. ~~The men who got most of the "boodle"~~ out of those contracts were poor companions of Dean, and they swear that he never got a cent from any contracts that he had with them for this work. It seems incredible that such should be the case, but I do not see any possibility whatever of going behind the statements of the men. I have had private detectives at work, I have threatened and promised and bugleozed but nothing will seem to get out of the men the facts about the case, although I cannot get at the bottom of the matter, I a

2002-11-05  
2002-11-05  
2002-11-05

confident as ever that Mr. Dean had a large "divy" with his men on contracts. I found that Dean borrowed money right and left, and that everybody that supplied the Machine Works with goods were subject to most abominable blackmail and that Edison was fast getting a very bad name, as Dean gave the impression that Edison was fully aware of his (Dean's) private dealings with the people the Machine Works bought from. I also discovered that Mr. Dean had stolen about \$200. worth of scrap, that is he had had the scrap taken from the Works, sent to a man in Brooklyn and received himself the cash for same. Although it might have been possible to indict Mr. Dean for conspiracy for receiving commissions, we were advised that our case would be a very flimsy one, not that we wanted to bring the matter into court, but we wanted to have something that we could hold over Dean if he got obstinate, but of course when I discovered the stealing of scrap, although it was a comparatively small amount it was quite sufficient for my purpose. On last year's orders, which you may remember was a very large one, Dean had due him about \$8,000., the amount of seven per cent profit of the job which Edison promised him. My policy was to save the Edison Machine Works any such sum, and Mr. Dean's stealing scrap gave me the opportunity. We have now in the safe a release, from Charles J. Dean to T. A. Edison and Charles Batchelor, trading as the Edison Machine Works, which sets the Machine Works free from any claim that Dean may have had, so is a clear saying of \$8,000. after getting rid of him.

COPY 1  
17440

had to deal with Rocaap. I do not think that he was guilty of any criminal knowledge of what Dean was doing. I do think, however, that he shut his eyes to certain irregularities which I noticed, and ~~which~~ first led me to make my first inquiries which resulted in my reporting the matter to Edison. Rocaap's defence is that Edison stood up for Dean against everybody, and that he (Rocaap) reported several matters to Edison at one time which Edison refused to take any notice of. Anyway Rocaap had to go. Instead of co-operating with me for the last two and a half years he has persistently and consistently put every obstacle in my way to prevent my getting information at Goerck Street, notwithstanding the fact that when he was engaged, it was perfectly understood that he was to work under my direction, and I think if I had had a little more co-operation at the Machine Works, I might have got to the bottom of the trouble earlier. Mr Rocaap also had an unsettled claim against the Machine Works for \$1,400. in connection with ~~some~~ the same deal as Dean, and Rocaap started to threaten suit against us for the amount. I had advised Edison and he had agreed to pay Rocaap, but as soon as the threat to start suit was made, I got Edison to allow me to take the matter in hand again, and I am now engaged in an effort to delay payment to Rocaap and save a possible thousand dollars in settlement. If I succeed it will be due to a smart young lawyer who is handling the business.

Whether Soldan will turn out a good Superintendent or not is very difficult to judge at present. So much of his work this Fall has been of an experimental character, and one can hardly

judge of a man's capabilities to handle work cheaply and quickly in connection with the Machine Works at the present moment.

Anyway he is honest, attends to his business all the time, and he keeps his shop in apparently very good order and everything seems well systematized.

Lamp Company. McLaughlin has sold his five per cent interest in the Lamp Company to Upton for \$12,000.. This would place the Lamp Factory property at a value of about \$250,000. on UPTON'S valuation. Inasmuch as Upton is running the Factory he ought to be better acquainted with this than anyone else, and if he values the property at \$230,000. for the purpose of buying a further interest in it, I should imagine that its real value must be nearer \$300,000. At that present time there is about \$180,000. invested in it, \$100,000. capital and \$80,000. borrowed from Upton. Then you remember that for practically eighteen months or two years it was nothing but outgo all the time and that there was an enormous amount sunk in experimental work, which must be looked upon as so much lost, you cannot but come to the conclusion that the Lamp Factory's business is in a very flourishing state. We are going to put the Lamp Factory into a close corporation with a capital of one hundred shares of \$100. each. This will be done before I go to Europe. Before this is done we shall put experts upon the books and make a thorough examination and balance prior to the business being turned over to a corporation, and I shall hope to bring with me for your information a statement of the Lamp Factory's business, on which you can rely far better than the above

1883-11-05

statement.

Bergmann & Co. Bergmann & Co's balance for the year ending September is now out and they are \$35,000. ahead on the year's business. Of course this is not in cash but in property, as practically all profit of the shops ought to be for sometime to come, owing to lack of working capital. Of this \$35,000. Edison is entitled to one third, which makes \$11,666., and you are entitled to ten per cent out of this one third, which makes \$1,800. You have invested in Bergmann & Co's something over \$4,000.; and if they had ample working capital and a division of the profits had been made at the end of the year, instead of at having been left in the business, you would on your investment of a little over \$4,000. have made \$1,800. cash. As it is of course you simply make on paper, although the property in which the profits have been invested is valuable. I do not know whether Bergmann had done so when you were here, but in addition to the original building, he has bought another lot 25 x 100, which makes the property 125 x 100; and he has built on this small lot a brass foundry and carpenter shop. Bergmann & Co. do all the brass work for the Machine Works and Kruesl, as well as for themselves.

I do not know that I can write you any more just now, in fact if it were not Sunday I would not be able to spend the time in dictating this letter. If you want me to do anything for you or bring anything over, please write me immediately you get this.

As I sail on the "Alaska" December 11th., I shall be in London about December 21st. or 22nd., and shall hope to be in

1883-11-05

Paris about the New Year. I have got to leave Liverpool sometime about January 5th. or 10th., so as to be home before the commencement of February.

Yours very truly,

Written by Samuel Insull  
to.

1893-11-06

November 6th, 3

Major Frank McLaughlin,

Park House,

Newark, N. J.

My Dear Major:-

With relation to your request that I should make an estimate for the erection of an electric light plant to light the Big Bend Tunnel, I beg to state that owing to a sudden rush of business in connection with our central station down town, my time has been so fully occupied since I received the data from you that I have been quite unable to take the matter up. I fear that I shall have to give the greater portion of my time to our central station work for sometime to come yet, and I must therefore ask you to offer my apologies to Dr. Pierce for the delay which will of necessity occur in getting the estimates asked for. The matter is one which I wish to attend to personally, as it is of a special character, otherwise I would turn it over to my engineers for their attention.

Very truly yours,

*Full*

1783-11-07

November 7th.

3

A. E. Beach, Esq.

201 Broadway, City.

Friend Beach:-

Will you please let me know when you think you will  
be able to publish the article on "Storage Batteries" which I sent  
you some time back.

Very truly yours,

*244*  
*3*



1883-11-07

November 7th.

3

George W. Bliss, Esq. Supt.

Chicago, Ills.

Dear Sir:-

We have your letter of the 5th. inst. relative to Mendota, and in reply would say that we consider your idea of allowing the people there to "cool off" a good one.

We have not yet received definite information as to Appleton, although we have been daily expecting it. We also would be interested to know what steps are being taken in regard to Racine.

Very truly yours,

*Jah*

1893 11-07

November 7th.

Mr. J. P. Conant, Esq.

Dear Sir:-

Referring to your wish to be removed from Shamokin, I fully sympathize with you and trust that your teeth will hold out until the troubles at Shamokin are fixed. Immediately everything is running nicely, I will see that you are removed from the land of tough steaks, and if you will only come on here some evening at 6 o'clock, I will take you up to Delmonico's and regale you with such a meal as you have not seen in ages.

Very truly yours,

A handwritten signature, possibly reading 'S. J.', is written in dark ink.

1883-11-07

Nov. 7th.

Dr. T. P. Conant,

Dear Sir:-

I have your favor of the 4th. inst.  
and in consequence of the receipt thereof have decided to send  
Anderson & Sims' men on to Chamokin immediately. I enclose  
per letter from Dr. Doty which I shall be glad if you will re-  
turn to me with such explanation of the troubles as your previous  
correspondence may not have contained.

Very truly yours,

Jain  
J

1883-11-07

November 7th.

3

Joseph Williams, Esq.

San Jose, Cal.

Dear Sir:-

In replying to your letter of the 20th. inst., in which you ask if a telephone could be operated onna railway train, I beg to say that it is possible, especially if the instrument used is a string telephone.

Very truly yours,

Sam<sup>y</sup>

1883-11-07

Nov. 7th.

F. R. Upton, Esq.

East Newark, N. J.

Dear Sir:-

We have complaints from the Sunbury company about the  
areing of their lamps.

Very truly yours,

*Yak*

1883-11-07

November 7th.

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

I am in receipt of your telegram of the 1th. inst. asking why definite work has not been begun as promised, such delays are ruinous. You must really leave to me to decide when I shall send a man to a certain town to start the work locally. Immediately a contract is signed that warrant the work continues although it may not be visible in the town where the plant is to be installed. We have quite an amount of machinery, wire &c. to get out before it is possible to do much work locally. This has been proceeding and I do not think you have any cause for complaint as to delay at Tiffin. As matter of fact our Supt., Mr. Fich, left Fall River Monday night for Tiffin, and signs of work will be visible there in a few days.

Very truly yours,

*Fah*  
J

1883-11-07

November 7th.

William J. Ward, Esq.

Brown's Hotel

33 Fulton street,

Brooklyn, N. Y.

Dear Sir:-

I have your letter of November 7th. If you will  
apply to Messrs Hermann & Co., 222 Ave. B., they will let you  
test your meter there if you show them this letter. They have  
constant current and will I feel sure give you the facilities you  
desire.

Very truly yours,

J. A. J.

1783-11-07

November 7th, 3

Samuel Inzull, Esq.

Boston, Mass.

Dear Sir:-

In relation to Lawrence, I beg to say that in accordance with our Order No.1, as per the items on the attached statement marked "C", the Illuminating Company is indebted to us to the extent of \$6,734. In accordance with item "b", which I believe was accepted by Mr. Lord, it being the same that you made to him from Brockton, they owe us \$1,200.20. Item "B" is for the extension of the mains on the North side of Essex Street, and is the amount in connection with which we had the correspondence with Mr. Lord, and he did not appear desirous of accepting our figures for this work, stating that their contract with Mr. Edison covered the full system to be ordered as they wished. Item "D" is for laying mains to the City Hall, which was not included in our contract, and amounts to \$108.14. The amount of the bill which I attach is for house services, tools &c., as per details shown, and amounts to \$1,242.05, and these amounts aggregate \$12,608.83. The full amount of our contract with the Edison Electric Illuminating Company of Lawrence for street installation is \$10,840. You will notice that in Order No.1 the amount for street installation is



1953-11-07

2

\$6,734., which is item "c" on the attached statement, and this deducted from the full amount allowed in the estimate for street installation leaves a margin of \$1,112., which was to be devoted to completing the system in accordance with our exhibits sent with the estimate, but inasmuch as they have ordered more work than we agreed in the first place to do and they have exceeded that amount considerably. I have deducted from the statement \$100. for a meter balance which we agreed to supply in Order No.1, and which was charged into the Lawrence Illuminating account erroneously.

You can make any other deductions you see fit, but as I do not know the amount you would wish to deduct for office furniture, inasmuch as we specified none in our estimate and I consider it better to leave this for you. You will see that the amount which the Lawrence Company owes us is \$1,002.83 and over and above our contract with them.

Very truly yours,

ad

1883-11-07

November 7th. 3

Samuel Insull, Esq.

Boston, Mass.

My Dear Insull:-

In regard to our Lawrence affairs I am sending you two bills. One is itemized and shows the actual cost to us for the material supplied by Kruesi for house services, &c. and the other is the regulation bill with twelve per cent added, which latter I presume you will use for collection. I regret very much to say that I have hunted everywhere to obtain a copy of the Exhibit which accompanied the estimate we sent to the Lawrence Company amounting to \$32,572, but have utterly failed to obtain one, nor can I find anywhere the letter which I am still under the impression you wrote designating the course of the mains.

I am very sorry to have to write you this, but it is simply impossible for me to discover where this data is, and you will now have to obtain the Exhibit from Mr. Lord. The course of the mains as specified in our Order No. 1 is in accordance with Item "C" on the Statement which I have attached. I cannot even find Kruesi's bid for the street installation in accordance with the item (you will understand when I say estimate I mean the full Order which includes Order No. 1).

1883-11-07

2

In relation to Brockton accounts, I have also enclosed two bills, one itemized for your own information and the other with the twelve per cent added.

I trust that you will recognize the fact that this data is as complete as I can make it, and at the moment of writing this I am in the same humor as you will be at the moment of reading it.

I enclose the Lawrence contract which you may possibly want in settling up affairs there.

Yours very truly,

*Arley*

1883-11-07

November 7th. 3

K. H. Lord, Esq. Trans.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your favor of yesterday's date enclosing check for \$10,000. on account of our contract for the installation of central station plant at Lawrence.

Yours very truly,

Zac

1883-11-07

Nov. 7th.

Mr. H. Ward Leonard,  
Brockton, Mass.

Dear Sir:-

I have yours of the 4th. and must request you to stay  
at Brockton for the present and not to come to New York before  
going to Baltimore until you have advices either from this office  
or from Mr. Insull who will be East during the next few days.  
You are mistaken if you think we want you to go to Coorck street  
to experiment. We desire you to stay at such station as you are  
sent to until we request you to go elsewhere.

Very truly yours,

Jae  
J

1853-11-07

Nov. 7th.

Mr. Frank S. Barr,

Sunbury, Pa.

Dear Sir:-

I have your favor of the 3rd. of November. With relation to the charge for 33 candle lamps, I would beg to say that the average lighting time for the 305 days in the year is at 9 o'clock in the evening. Hotels want the light until 2 A. M. This makes 8 hours at 1 <sup>1</sup>/<sub>4</sub> cents per ten candles per hour. The amount would be 3 <sup>3</sup>/<sub>4</sub> cents per hour or 30 cents for the 8 hours. This would give you about \$110 for the 305 days of the year. If you charge \$30 per year it would be at the rate of about 1 <sup>1</sup>/<sub>10</sub> per thousand feet of coal gas. You might make a contract at this rate only by the month with the privilege of stopping when you get loaded up and have an opportunity of taking better consumers. I agree with you that the extension of your mains should take place before the cold weather comes. If you will please have your meter man mark upon the charts sent herewith exactly where the present mains run and where the feeders run and also mark on the chart where you propose running your new mains, I will have calculations made and let you know exactly what size of copper wire should be run for the extended circuit. I cannot understand why your lamps are so.

Very truly yours,

*Thos J*

1883-11-08

November 6th.

3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Replying to your letter of the 6th, inst. in reference to arc lights, we beg to say that we have an arc light ~~as~~ that can be worked on our circuit, but not nearly so economically or satisfactorily as incandescent lights of large power. Our large power lamps are getting to be excellent in life and economy.

We have a new wire and all devices requisite for using it and we hope in a few days to be in receipt of authority from the Board of Fire Underwriters to use it. If we fail to obtain this, which is hardly likely, we should do wiring in the old manner.

In relation to Cynthiana and Maysville estimates, we are pushing them through with all possible speed, and will make them as low as we can.

Our Superintendent, Mr. Rich, is at the present moment iniffin, and will see that everything is done to advance work there.

Very truly yours,

*W. H. C.*  
*J.*

1883-11-08

November 8th. 3

Charles S. M. Small, Esq., Pres.

N. Y. Electrical Society,

Room 40, W. U. Building, City.

Dear Sir:-

Replying to your letter of the 5th. inst., I beg to say that it would give me great pleasure to comply with your request and deliver a lecture for the benefit of the Members of your Society were I possessed of the powers of oratory requisite for such an occasion. The fact of the matter is I never delivered a lecture in my life. You of course understand that there is a very great difference between talking and inventing, and though I have made rather a success of the latter the former is an accomplishment which I do not possess, and I must therefore ask you to very kindly accept my regrets together with my best wishes for the well-being of your Society.

Very truly yours,

*July*



1583-11-08

November 8th. 3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

Herewith we beg to enclose our estimate No. 30 for the erection of an Edison Electric Light Central Station Plant at Keenah, Wis. of 500 lights capacity and amounting to \$7,660., together with map "A" referred to in the estimate, showing the course of our proposed street installation, which takes in 600 lights. The estimate is based upon the assumption that the local Company provide the building, power and all necessary shafting, pulleys, hangers, bolting &c. to and including jack shaft, requisite for the proper and efficient operation of their station.

In regard to our bid for street installation, this is based upon the assumption that all permits and concessions necessary to be obtained from city authorities or private parties shall be procured by the local Company, to enable us to erect poles and run our wires in accordance with the red and white lines on Exhibit "A". Should they fail to obtain any of these and thereby cause us any additional expense, it is understood and agreed that they shall reimburse us to the extent of the excess. You will observe that the cost per lamp of this installation, as far as we are

concerned, is \$13.77. As it only remains for the local company to erect their building, which need only be a small one, the installation is going to be a particularly cheap one, and we think our part of it will be found satisfactory in all respects.

If you come to any definite understanding with these people which would necessitate formal agreement, we shall be glad to send them.

Very truly yours,

*Jan*  
5

1813-11-08

November 6th, 8

Spencer Gordon, Esq.

Boston, Mass.

Dear Sir:-

We enclose herewith our estimate No. 34 for the erection of an Edison Electric Light Central Station Plant at Natick, Mass. of 1,000 lamps capacity and amounting to \$23,234.36, and under separate cover we send you our Exhibit "A", showing the course of our proposed street installation, together with plan of proposed central station. You will notice that the cost per lamp of this estimate is \$23.23, which, for an underground system, we consider very reasonable. The Newburgh installation, which we have just closed, came to about the same figure.

We also enclose you our estimate No. 35 for the erection of an Edison Electric Light Central Station Plant at Norwich, Conn. of 1,000 lights capacity, and under separate cover we send you our Exhibit "A" referred to in the estimate, showing the course of our street installation, together with plan of central station, the details of which are the same as the Natick station. This estimate amounts to \$23,370. or \$23.37 per lamp, which is about 43 cents per lamp in excess of the Natick estimate. This excess is accounted for by the fact that our proposed street installation in Norwich will accommodate 1,210 lights, whereas the street installa-

tion in Matiel takes in but 1,000. We will send you whenever necessary forms of agreement for closing either or both of these contracts, but if anything is to be done in the matter this Fall, immediate steps must be taken, as in a very short time we will have frost to contend with which would of course put an end to everything in connection with dimming up streets for the purpose of paying our mains.. If the Matiel or Norwich people wish to do that business we consider these estimates give results which must be perfectly satisfactory. They will of course understand that by delaying the matter until Spring they will lose a great deal of money by not being able to take advantage of that season of the year when the average burning of light is the longest.

We shall be glad to hear from you as early as possible what steps are being taken to effect a settlement, and in the meantime we beg to remain,

Very truly yours,

*John*  
9

153-11-08

November 8th. 3

M. C. Polknap, Esq. Secretary,  
Edison Electric Illuminating Co.  
Newburgh, N. Y.

Dear Sir:-

We have the pleasure to enclose you herewith revised plan of the Newburgh central station showing all the details necessary for your contractor to have. We trust that the details of it will be accurately carried out, as any deviation would greatly interfere with our arrangements.

Our Superintendent will visit Newburgh shortly to see how you are getting along.

Very truly yours,

*Wm. J.*

1883-11-08

November 11th. 3

W. Burrows, Esq.,

Room 1st,

40 Broadway, City.

Dear Sir:-

Will you kindly let us know the ~~extra~~ third class rates to Menah, Wis. and Danbury, Conn. We require these rates for estimating purposes and it will be necessary for you to quote from the tariff at the present time in force. When we come to ship material we will supply you with the forms you suggested properly filled out, in order that you may obtain special quotations for us on our material.

Very truly yours,

744  
7

1883-11-08

November 8th.

3

Messrs. Harris & Robinson,

Hartford, Conn.

Dear Sirs:-

We have the pleasure to enclose you herewith our estimate No. 31 for the erection of an Edison Electric Light Central Station Plant at Danbury, Conn. of 1,000 lights capacity and amounting to \$25,014.50. On account of having to prepare this estimate under great pressure, in order to keep our promise to you to mail it to-night, it was impossible for us to send a man to Danbury for the purpose of inspecting the streets, preparatory to making a bid for the street installation. On this account the amount which we have estimated for same is subject to revision. Mr. Kruesi, of the Electric Tube Company, will go to Danbury this week, if possible, and certainly not later than Monday, and obtain such data as he may require to enable him to submit a fresh estimate for the street installation, and we will immediately advise you of the result. You will notice that as the figures stand now the cost per lamp is \$25.91, but this is accounted for by the lighting of the district being very much scattered and necessitating long mains and feeders. In Newburgh, N.Y., where we have just closed a contract and commenced work, the cost per lamp was about

1893-11-08

2

\$223., but the district was much more compact than Danbury and the feeder much shorter. You will see that the comparison between the two estimates would be very favorable, and the seemingly high average per lamp of the Danbury proposed installation is very satisfactorily accounted for by the larger amount of copper which it is necessary to use and the greater amount of excavation required to lay the mains, also the fact that these mains are laid to accommodate 1,271 lights.

Under separate cover we send you map "A" referred to in the estimate, showing the course of our proposed street installation, and if you come to any definite arrangement with the Danbury Company, we will forward you forms of agreement. Under same cover we send you plan of our proposed central station, showing the general arrangement of its interior.

Trusting that these will meet your requirements, we are,

Very truly yours,

*Far*  
3



1883-11-08

November 8th. 1883

H. Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your letter of the 7th. inst., we beg to say  
that we consider it would be advisable for you to purchase the  
Photomotor you mention.

Yours truly,

*Tae*

1883-11-08

November 8th.

3

Hall Engine Co.

Erie, Penna.

Dear Sir:-

Replying to your letter of the 6th. inst., we beg to say that we understand that there is some question about patents existing between your Company and the Armington & Sims Company. We are not bound by this latter Company in any way, and we use their engines because they have given better results in our business than any other engine we have ever tried. In the matter of countershafting, we never, under any circumstances, make use of it, as we consider it to be an impediment to the proper and satisfactory working of our stations..

Have you any opinion of experts that your engine is patent free, if so would you be kind enough to let me see it?

Very truly yours,

*Sal*  
*y*

1883-11-09

November 6th. 3

P. R. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We have your letter of the 5th. inst. in reference to the breakage of lamps at Sunbury, and in reply beg to say that we have sent an expert from the Lamp Factory who will ascertain the cause of the trouble.

We have to-day written Mr. McCormick very fully on the subject, and trust in a short time to eradicate the difficulty.

Very truly yours,

*J. M. J.*

1883-11-09

Mt. Carmel

November 8th. 8

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to enclose herewith our estimate No. 73 for the erection of an Edison Electric light Central Station Plant at Mt. Carmel, Penna. of 500 lights capacity, and amounting to \$14,500. and under same cover we send you map "A" referred to in the estimate, together with plan of proposed central station. This installation, as you will see, comes to \$29.12 per lamp, which considering that the street installation covers nearly 200 more lights than the nominal capacity of the plant and that the installation is a very small one (in which cases the cost per lamp always runs up high) is a very fair estimate. The central station to-night have been located at a better point, but as you understand the Mt. Carmel people purchased the lot for this purpose without consulting us in the matter. The Sunbury installation, we might mention, came to about the same figure, and we feel sure that when you explain to the Mt. Carmel gentlemen about the cost per lamp running up very high in such <sup>small sized</sup> ~~small size~~ plants, they will understand the case and fall in with our ideas that the estimate is a good one. There is one thing that we wish to impress upon you and upon the gentlemen interested at Mt. Carmel as forcibly as is

1893-11-09

possible for us to do it, and that is, that there must not be a days delay in giving us the order for this installation, if they desire it to be put in this Fall. In a very short time we will have frost to contend with which would put an end to all work in connection with excavating for our pole line and foundations. The M. Carmel Company will of course understand that by delaying this matter until Spring they will lose a great deal of money by not being in a position to take advantage of that season of the year when the average burning of xxx light is the longest.

We will send you to-morrow forms of agreement filled out and executed as far as we are concerned, and if we get this order at once, we will commence work right away.

Trusting you will recognize the necessity of a very prompt reply, we are,

Very truly yours,

*Mc*

Enclosure.

1883-11-09

November 9th. 3

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition,

Louisville, Ky.

Dear Sir:-

We enclose herewith our check No. 248 for \$75., and wish you would be good enough to return to New York at once. Please wire us when you leave Louisville, which we trust will be on Monday the 12th. inst.

Very truly yours,

Jae  
J

Enclosure.

1893-11-29

November 29th.

Frank H. McCormick, Esq. Pres.

Edison Electric Illg. Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

We have your letter of the 5th. inst. in reference to the breakage of lamps at Sunbury, and in reply beg to say that we have sent an expert from the Lamp Factory to Sunbury, who will very soon ascertain the cause. We strongly suspect that your local man has cut some customers in by running the service from the feeder instead of the main. What you should have done was to have ascertained at what particular place the breakage occurred, after which the cause of such breakage could be very readily obtained. The same lamps as you are using are in service at Shamokin, Brockton and Roselle and give 800 hours. The Lamp Factory's guarantee is that if run at ten candle power, they will last 800 hours, and we know from experience, which is the best evidence that we could possibly have, that these lamps are capable of bearing out the guarantee. We regret that Mr. Harr should have been so incensed on account of the letter we wrote you, as Mr. Conant simply quoted the statements made by the engineer at Sunbury. The Lamp Factory expert will, however, find out the cause of the excessive breakage.

ALLEN H. AG. COLLECTOR, RBD. FLOOR.

2

of lamps in Sunbury and adjust the matter so that there will be  
no further trouble.

Very truly yours,

*Jan*  
*9*



1853. 1109

November 9th. 3

J. F. Hunn, Esq. Vice President,  
Tiffin Edison Electric Ill. Co.  
Tiffin, Ohio.

Dear Sir:-

We have your letter of the 3rd. inst. asking us to name a date when the Tiffin installation will be ready to supply light. In reply to that query we would say that the work on the station has already been commenced there and that its completion will not take more than twenty or twenty five days. The wire for the pole lines will be in Tiffin in about ten days, and this work can proceed in unison with the work on the station, and should be completed about the same time. We do not like to state positively that we will have the plant running by a certain time, but we want you to feel assured that ~~xxxxxxxx~~ we will do everything in our power to meet your wishes and have it running about the 15th. December.

In relation to lighting the public garden you speak of, as far as we can tell from the incomplete information given in your letter, this appears to be in Block 40. We are to submit a proposal to Mr. Stuart for lighting this block, together with some other blocks, and when that has been received it will give you the

1983-11-09

2

information you desire on that point. We trust you will understand that it is our desire to meet your wishes in this case and that the reason that we do not promise absolutely to start on the 10th. December is that there are so many points to be taken into consideration in making a promise of that kind that we consider it better for ourselves and for you to place the matter in the light we have, notwithstanding the fact that we feel reasonably sure of being able to meet your wishes.

Very truly yours,

*Zak*  
J

1883-11-11

Sunday,

November 11th. 3

W. S. Hastings, Esq.

15 West 50th. Street, City.

My Dear Mr. Hastings:-

I have been receiving since last Wednesday very pressing telegrams from Messrs. Harris & Robinson asking me to attend a meeting at Southington to-morrow (Monday), and I have repeatedly telegraphed them that it is simply impossible for me to do so, and yet they persist in wiring me to attend the meeting. Now after I get there I do not see what good I can do, inasmuch as the license contract with the Light Company has not been closed yet. Harris & Robinson say that the most important stockholder leaves Southington for the South on Tuesday morning, and I think it is more a matter of the light Company's <sup>business</sup> than the Construction Department's for the present, as I am positive, from my experience elsewhere, that after I go there there will be a lot of useless talk, and I will have to go later on to get my contract closed. I have besides very important business to-morrow, having been out of the office the whole of last week, and I write to ask if you can go to Southington on the eight o'clock train to-morrow morning. If so, I would like to see you before you go, and I will come up to your house or I will meet you here anytime up to

1883-11-11

2

three o'clock this afternoon, after which hour I do not know where  
I shall be.

Will you please let me hear from you by bearer.

Yours very truly,

Sp

1883-11-12

November 12th. 3

Paul D. Dyer, Esq.

Warner House,

Chillicothe, Ohio.

Dear Sir:-

I have your various letters from Canton. I am very anxious to have you go to New Orleans as soon as possible, and I want you to hurry through on Mr Stuart's work. You must finish with him by Saturday next at the latest.

Very truly yours,



1873-11-12

November 18th.

3

J. G. Oliver, Esq.

Toronto, Canada.

Dear Sir:-

Referring to your favor of the 6th. inst., I beg to inform you that my experiments are in the main confined to incandescent electric lamps, and the substance you mention for carbon points for arc lamps will therefore be of no use to me.

Very truly yours,

Zag  
I

1883-11-12

November 12th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Your letter of the 11th. inst. came duly to hand.

We are delighted that you should recognize the fact that it is quite true that we cannot supply estimates unless we have the data whereon to work. Tiffin work was started immediately the writer got back to New York. Do you not know that there are several things to be done in connection with material before we can have men on the ground actually at work in the town itself.

We are pushing Maysville and Cynthiana estimates as quickly as possible, but I must remind you that we have a few towns outside of your territory that we have to estimate on.

That despatch about Mr. Edison going to Louisville was received during the writers absence from town. That lets the Private Secretary out, but it was answered just as soon as Mr. Edison could be got out at by the Private Secretary's assistant. If you did not get the reply you must blame the Western Union Telegraph Company and not us. I doubt very much whether Mr. Edison will go to Louisville at all. It is probable, however, that Major Eaton will go South sometime within the next week or so.

1883-11-12

November 12th. 3

Why don't you give us some more contracts, which is after all the main encouragement to us to keep plodding away at estimates. One little contract of \$18,000., which required a week of the writers time to get executed, and a trip of something like 650 miles, is hardly sufficient to justify the heavy investment we are making in canvassing, estimating and such like on your behalf. Where are those other two contracts that you said we should have within a few days of my leaving Cincinnati?

Very truly yours,

SS  
P.S.



1883-11-12

November 12th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Referring to your letter of the 7th. inst., it is very important that Mr. Dyer should leave your territory by Saturday next. We really think that you have enough canvasses to get along with. We have kept him in your district so long, to the prejudice of our business elsewhere, that we feel compelled to insist upon his leaving you by Saturday next at the latest.

Hoping that this will not cause you any great inconvenience, we remain,

Very truly yours,

Jas  
I

November 14th. 3.

Straight Line Engine Co.

Goddard & Fayette Sts.,

Syracuse, N.Y.

Dear Sirs:-

We beg to acknowledge with thanks receipt of your favor of the 10th. inst. in relation to royalties on your engines, and will await the communication you propose sending us.

Yours truly,

Jac  
I

1883-11-13

November 13th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 8th. inst., asking us to send you an estimate for Piqua, with the central station located on the Farrington lot. The map which you mention in your letter came to hand a few minutes ago, and it has therefore been impossible for us to comply with your request to wire the figures "on Monday". Inasmuch as you want us to do very close figuring on this estimate, we wish you would <sup>have</sup> the attached form filled in by some reliable person as accurately as possible, as to prices in Piqua. We shall be glad to have this returned at the earliest possible moment, as we can give you no figures whatever until it is received by us. You also omitted to send us the size of the lot mentioned in the foregoing part of this letter. Of course we could have guessed at this size, but that is not always a safe thing to do. Please send us full particulars about this new lot in accordance with the form attached.

Yours truly,

*Wm. J.*

1883-11-13

November 13th. 5

W. J. Jones, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your letter of the 12th. inst. in regard to books and stationery covered by the amount of \$30. in the Brockton estimate, we beg to say that it was our intention to supply a full set of books, together with special forms which we considered necessary for the running of your business. Some of these books are now being prepared by the printer, but it is our intention to make an allowance on this item and charge you only for what we supply..

Yours truly,

*SJ*  
*P.S.*

1883-11-13

November 13th. 1883

Frank S. Farr, Esq. Trans.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 11th. inst., and in reply would say that you can order cleats from Messrs. Bergmann & Co., 292 Avenue B, City.

<sup>cleats</sup>  
You ask for vulcanized fibre cleats and brads to go with them. The cable can be obtained through us or by applying direct to the Ansonia Brass & Copper Co., 19 Cliff Street, City.

In regard to the breakage of lamps, it is very strange that your meterman has not sense enough to see that his indicator is too high on one side and too low on the other. It requires but a small amount of judgement to make a comparison between the brightness of the lamps on the two sides. He should regulate these sides evenly and reset his indicator. Your breakage of lamps should be about fourteen a week.

Yours truly,

J. A. L.

J

1883-11-13

November 18th.

3

Col. C. E. Gouraud,

74 Madison Avenue, City.

My Dear Colonel:-

I have gone thoroughly into the matter of the division of the Edison-Gower-Bell Telephone shares coming to the Edison interests and I do not see how I can do better than to offer a division of them on a basis of four-tenths to go to you for the countries you put in and six-tenths to go to the Edison Telephone Company of Europe here; you taking your proportion of the six-tenths, which you are entitled to under your arrangement with the New York Edison Company.

If you will write me a note accepting the division as above stated, I will have the papers fixed up and mailed to you by Thursday's steamer without fail. I think that they should be put in a little more formal shape than that indicated in the former letter already agreed upon between you and myself. I am very sorry that the matter should have been put off so long, but it was quite unavoidable.

Hoping that you will have a pleasant trip home, believe me,  
very truly yours,

209

1883-11-13

November 18th. 3

John Decker, Esq.

Lewisburg, Union Co., Penna.

Dear Sir:-

In reply to the query contained in your letter of the 5th. inst. as to whether it would be possible to collect atmospheric electricity on conducting wires, in order to obtain light, I beg to say that the process is possible but highly impracticable.

Yours truly,

John  
I

1883-11-13

November 13th. 3

O. W. Wilber, Esq.

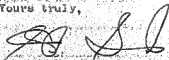
Corner 4th. & Rodman Sts.

Fall River, Mass.

Dear Sir:-

Please report at the earliest possible moment to this office and be prepared to take a journey South. We want you just as soon as you can get here, and we shall be glad if you will wire us on receipt of this when we may expect to see you.

Yours truly,

A handwritten signature in dark ink, appearing to be 'S. L.' or similar, written in a cursive style.



1883-11-13

November 12th. 3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

We have your letter of the 9th. inst. in reference to Appleton and Racine. In relation to the former, we trust that the information necessary for us to have, in order that we may prepare an estimate, will come to hand soon. We are glad to see you state that the Racine estimate was satisfactory.

Herewith we beg to enclose you two copies of the form of agreement which is entered into by the local company with this Department. We presume you have copies of the licensee contract which the Parent Company uses in extending privileges to the local company. If you have not these latter copies Mr. Hastings will supply them.

Yours truly,

*J. H. Hastings*

Enclosure.

1883-11-14

Personal.

November 14th.

3

George Worthington, Esq.

23 Park Row, City.

Friend Worthington:-

You are "barking up the wrong tree". Why did you not come and ask Mr. Edison if he was the originator of the "Times" article before charging him in your paper with the "crime". You know him well enough and can easily get at him, and therefore it would certainly have been a little more courteous if you had applied to him for information before allowing the article in your issue of the 8th. to be put in print. As you state "fair play is a jewel" and I might add that it is hardly fair play to judge a man guilty in advance. As a matter of fact Mr. Edison had nothing whatever to do with the article in question.

I write this for your personal information and not for publication.

Yours very truly,

*SD*

1883-11-14

November 14th. 3

W. L. Garrison, Esq.

137 Federal Street,

Boston, Mass.

My Dear Sir:-

On my return to New York I spoke to Mr Edison with relation to the wiring. We are, at this writing, doing our best to get the cable accepted by the Board of Fire Underwriters.

They have appointed a Committee to look into the matter, and Major Eaton and Mr Edison are going to draw up a statement setting forth the advantages to us of using the cable, and immediately that is got out I understand that the Committee above referred to are to come here and tests are to be made with the cable to prove its adaptability to the purposes for which it is designed, and also to prove its safety when used instead of the ordinary two wires.

We all recognize that the question of cheapening the wiring is about the most important matter at present under consideration, and you may rely upon every possible effort being made to give you something acceptable to the fire insurance people, and cheaper than the material now used for house wiring purposes.

Very truly yours,

S. J.

1883-11-14

November 14th. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I have the pleasure to enclose you herewith a small order for copper wire for use at Mt. Carmel, Penna. I also enclose you copy of our contract with the Edison Electric Illuminating Company of Mt. Carmel. The parties in interest are good substantial people, and in fact every way satisfactory to us. We have undertaken to start our plant by the 15th. December, and you will therefore please hurry this wire as much as possible. It should be shipped from your Works at the latest ten days from date.

It is impossible for me to get down town to-day, and if you can have the necessary papers prepared and returned by bearer, I will execute them and send them right back to you. I shall be glad if you can let me know whether you can ship the copper in the time above specified.

Yours very truly,

Enclosure.

1873-11-14

November 14th. 3

W. H. Dwyer, Jr. Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 12th. inst., I am of the impression that you will have to use the old method of wiring until we get permission from the Board of Fire Underwriters to use the new cable. They have the matter under consideration, but it is pretty difficult to force them to deal with it quickly.

I should therefore think it advisable not to mention to your probable customers that we have a cheaper method of wiring under way.

Very truly yours,

Jah  
I

1883-11-14

*Dynamos*

November 14th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Your letter of the 30th. inst. came to hand this morning.

I do not see why we should keep up our prices on lamps if it is going to ruin our lamp sales in Europe, and I shall therefore be very careful what I say in reply to Fargos letter, which you say is to come here. Anyway I should by no means be disposed to accede to his request, considering that he is bidding for the English Lamp trade as against us.

*Link* relation to the 100 light dynamo we sent to Berlin, we have not up to this writing made any single corn machines.

We propose to do so at some future time, but now it will interfere with the manufacture of the German dynamo I cannot see. Our policy is, when we design and build a machine, to be very careful to sell all machines of a given design before we bring out anything better. By this means we have ourselves being "stuck" with a lot of obsolete machines. We have sold in this country all the old forms of dynamos and our new types are now coming out.

and we are none the worse off financially for having brought out such new designs. It would be ridiculous, as you well know, to suppose that we could build a machine and say that there will never be any alteration. Your Ivory friends do not seem to understand this matter. Do they think that simply because we are going to turn the 100 light machine into a single magnet machine, that we propose throwing <sup>away</sup> ~~all~~ <sup>now in stock</sup> those that we have built with the double magnet? At this writing we have about fifteen double magnet machines of the 100 light type at Coercal Street, and they will all be sold before we make any single magnet machines. We follow this policy out right through our business. The first "H" machines that were made would run only 350 lights and were of the long magnet type. We built about twenty of them. Then we got out the improved "H", on which we can run 450 lights with ease. The whole of the former were sold with the exception of two, and these two we have just managed to dispose of without any sacrifice whatever, and at the same price at which we sold the improved "H", to a very obliging customer who wants 700 lights and nothing more, although he can get 800 for the same figure.

I am delighted to hear that you propose returning, and the sooner you do so the better. The prospects are that we shall

plenty of work and very few of us to do it.

Yours very truly,

Zak  
J.



1893-11-14

*Sunbury*

November 14th, 8

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We closed this morning a contract for the installation of a plant, which is practically the duplicate of Sunbury, at

Mt. Carmel. We have got to start the plant about the 17th. of

December, which you will notice gives us little more than a month to do the work in. It is highly important that you should make a

trip to Mt. Carmel at the earliest possible moment. If you will

please advise me by wire to-morrow when you can go there, I will

meet you here at the office at any time when you may indicate when

you go through New York on your way. It is necessary that I

should have a talk with you before you go to Mt. Carmel, and it is

also necessary that you should go there at the earliest date com-

patible with your arrangements for the pushing of the work at

Fall River.

I enclose you herewith check for \$500. as requested in your note left here yesterday.

Very truly yours,

*S. J.*

15x3-11-14

November 14th. 3

Charles Batchelor, Esq.  
Paris, France.

My Dear Batchelor:-

I got your letter of the 30th. inst. this morning, and was very much pleased to hear that you will soon be free and propose coming back here, but I am very sorry to say that I do not know exactly what to do with relation to stock matters for you. My long letter to you of about a week ago will have explained the situation thoroughly. I ought to have posted you earlier, but you know how we are situated here and that must be my ~~apology~~ <sup>Apology</sup>. I arranged with Edison this morning to cable to you asking if \$1,000. would be of any service to you, and if so, to draw on him at three days sight for same.

I hope that you will not leave la Belle France before I get over to see you. Why cannot you arrange to come back on the "Oregon" about the 15th. January? That is the time that I propose returning from my trip to England.

Yours very truly,

S. J.

November 14th. 3

W. S. Andrews, Esq.

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr. Doubleday has returned to town from Louisville, and I propose sending him to you on Friday night. Is he to go to Lawrence or Fall River? If the station at Fall River will not be ready for you to start in there, I want Mr. Doubleday to spend the time between now and when it will be ready, in Lawrence, so that you can further post him on our work, as I arranged with you when I saw you last.

Please let me have a reply by Friday morning's mail without fail.

Very truly yours,



1873-11-14

November 14th. 8

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to Order No. sent herewith, I beg to state that it is absolutely essential that you should ship the engine to St. Carmel inside of fourteen days. This is the longest possible time that we can give you, and therefore will rely upon your not disappointing us in the matter, as we have undertaken to start our plant about the 15th. December.

Very truly yours,

Enclosure.

1853-11-14

November 14th. 3

P. B. Shaw, Esq.

Post Office,

Hazleton, Penna.

Dear Sir:-

We beg to enclose you herewith our estimate No. 72 for  
the erection of an Edison Electric Light Central Station Plant at  
Hazleton, Penna., amounting to \$20,084.41, and with <sup>conductors for</sup> ~~a capacity~~ of  
1,219 lights, which we hope will reach you in time.

Very truly yours,

*Jak*  
*J*

1883-11-14

November 11th. 8

Messrs. Morris, Tasker & Co.,

15 Gold Street, City.

Dear Sirs:-

We enclose you herewith our order No.      for steam piping to be shipped to Mt. Carmel, Penna. As this order is very small we trust that you will be able to fill it for us immediately. We require to use this steam piping in connection with a time contract that we have taken, and you will therefore very much oblige us if you can state positively the date that you can ship the piping and fittings from Philadelphia.

Very truly yours,

Enclosure.

1883-11-14

November 14th. 3

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have arranged with the Isolated Company to buy one of their large engines now at Louisville to go to Tiffin, and have ordered them to ship it to W. D. Rich, care Edison Electric Illuminating Company, Tiffin, Ohio. Will you please make the necessary arrangements to have it received there. I presume it will be shipped inside of a week.

Very truly yours,



1883. 11- 15

Shamokin

November 15th. 3

Thomas P. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

I duly received your favor enclosing statement of the  
receipts for the first fifteen days record at Shamokin.

Will you please let me have a statement of the running  
expenses of the station for the same period.

Very truly yours,

*Wm*

*l*



1883-11-15

Patents

November 15, 1883 3

Deutsche Edison Gesellschaft,  
Berlin, Germany.

Dear Sirs:-

Referring to our cables confirmed elsewhere, the statement that the Sawyer-Mann people have beaten me in a patent suit is entirely untrue. Your Patent Attorney will explain to you that the procedure in the American Patent Office is that if two applicants cover the same point in their application for a patent, the matter is thrown into "interference", and the merits of the case decided by the Patent Office, and if they are appealed against the decision is revised by a higher court. The Board of Examiners who are the scientific part of the Patent Office decided the Sawyer-Edison interference in my favor. The Sawyer people then appealed to the Commissioner of Patents, who reversed the decision of the Board of Examiners. We have now appealed to the Secretary of the Interior, but have no idea who will win.

Anyway whoever wins, the case will be carried to the Supreme Court. There is really no great question involved in the application, and we fight it out on the general policy that whoever we have a

dispute in the Patent Office we carry the matter to the highest possible Tribunal to obtain a settlement. The Sawyer interference refers to matters in relation to paper carbon, the use of which is entirely obsolete, and if I gain the case the result will simply be a little gain of prestige on my part, inasmuch as I should never think of using paper for my loop in the present advanced state of the art.

Very truly yours,

*John*  
*I*

November, 15th.

3.

W. J. Jenks, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Referring to your favor of the 12th. inst., we shall be very glad to make equitable arrangements with you to furnish you with two machines in place of the one you now have as a spare. At the present time we have not dynamos of the class required on hand, which we could send you. I will notify you as soon as we have, and will see what proposition I can make as to taking the one you now have back again. You have such a standard equipment as we were able to estimate for at the time the contract was made with the Brockton Company. The smaller machines were not at that time designed, and it was impossible for us to contract for anything else. It is not practicable at present to use the three brushes, and I doubt very much if it would be desirable with the new system of winding, which at present is not in that state of perfection which will allow of our using it. I shall probably be able to <sup>write you</sup> discuss in the course of ten days or so as to supplying you with two smaller machines. Cannot you arrange to put all the "late" lights, or those required in the morning, on one side of

Black & White Illustrating Co.  
100 N. 1st St. St. Louis, Mo.

the circuit, so as to avoid the necessity of reversing the current through the meters on one or the other half.

The Lawrence Company contracted for "H" machines and afterwards requested me to supply them with a spare, their original intention being to use an old "K" as a spare. To do what you desire will require a few extra switches and an extra resistance box I think, but at this writing we have not worked out the exact plan by which we intend to operate the two small machines in a plant where "H" machines are used for the general running.

We are doing all we can to cheapen up the wiring.

We have not, up to this writing, been able to get the cable, of which we sent you some samples, approved by the Board of Fire Underwriters. They have appointed a Committee, however, whose duty it is to look into the matter, and immediately we can get some action taken by them we will write you as to the matter.

Very truly yours,

John  
J.

1883-11-15

*Recd. Mr. J. J. J.*

November 15th. 1883

George H. Bliss, Esq. General Supt.

Chicago, Ill.

Dear Sir:-

Enclosed herewith please find statement giving the full particulars as to these dynamo machines asked for by you. If there are any further details that you desire we will send them to you. We think that we can send ~~some~~ blue prints of the foundations in the course of ten days or so.

Very truly yours,

Enclosure.

1883-11-15

El. Lt. - Foreign  
- France

November 15th.

3

J. F. Bailly, Esq.

Paris, France.

Dear Sir:-

Referring to cables elsewhere confirmed, I beg to inform you that I have cabled to the Societe Electrique Edison, Paris, stating that I have not got a man whom I can send to start the Edison Lamp Factory in Germany. So many of our men have gone to Europe that, in justice to our Home Company here and our manufacturing interests, it is imperative that we should keep what good men we now have to do our work in this country. We have a great deal of it and very few people to do it. It certainly seems to me that the Ivory Factory ought to be able to supply the man required.

Very truly yours

*J. F. Bailly*  
J

1883-11-15

November 11th. 3.

Societe Industrielle et Commerciale Edison,

Ivry-sur-Seine, France.

Dear Sirs:-

Referring to your favor of the 12th. October, I beg to  
give you below prices of the various Armstrong & Sams engines.

14" 2 x 18 engine.....\$ 1,000.00

10" 2 x 12 engine..... 1,000.00

8" 2 x 10 engine..... 775.00

I presume the ten per cent royalty should be paid on the  
prices named.

Very truly yours,

1893-11-15

November 15th, 3

American Bell Telephone Co.

95 Milk Street,

Boston, Mass.

Dear Sirs:-

Referring to your favor of the 13th. inst., we beg to state that the 1000 carbon buttons were shipped to you on the 13th. inst. Will you please advise us whether you will require any more than them, inasmuch as we have to rig up specially to make them, and would like to have a number made now if you are liable to order any more within the next few months.

Very truly yours,

*Juk*

I enclose you herewith our bill for the 1,000 carbons.



1873. 11. 15.

November 18th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have looked into the matter of the engine shown to Mr. Insull by you when he was in <sup>Cincinnati</sup> ~~Cincinnati~~ and I am confident that it is of such a character that it would absolutely be of no use to us in our business. It would therefore be useless for me to go further into the question, unless Messrs. Smith, Myers & Co. got up an entirely different engine. From the explanations given me by Mr. Insull, I do not wonder that they could have built the engines so much cheaper than those we now use. They are of a very cheap character and would by no means answer our purposes.

Very truly yours,

Jah  
I

1883-11-15

November 15th.

3

E. Buchol, Esq.

101 Conti Street,

New Orleans, La.

Dear Sir:-

Your favor dated October came duly to hand, but the picture referred to therein did not arrive until a day or so back.

It affords me very great pleasure to acknowledge its receipt and to thank you for your very great kindness in sending me so charming a painting. It is very difficult to do justice to such a compliment and I therefore will not do so, but simply return you my heartfelt thanks for your very great kindness.

May I ask you to accept a copy of my photograph, which I send by express.

With relation to the Phonograph, I have been so busy in developing my system of electric lighting for the past few years that I have been compelled to drop all other matters.

Very truly yours,

1883-11-16

November 18th,

3

C. E. Spiers, Esq.

22 Murray Street, City.

Friend Spiers:-

We are going to have a "L" to-night, that is we propose putting the books in order up stairs in the library.

If you have nothing particularly to do, I think it would be a favorable opportunity for you to get information as to the missing volumes and duplicate sets and also greatly assist us, if you can favor us with your company. The performance will start in about eight o'clock.

Very truly yours,



1883-11-16

November 16th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge receipt of your telegram as follows:-

"Hazelton contracts signed and forwarded to you via Reading Express, together with check and draft for twenty five per centum. Push the work."

I congratulate you on the speedy closing of these contracts, and can assure you that the work will be pushed ahead rapidly.

Our Superintendent, Mr. Rich, will be in Mt. Carmel Monday, and as soon as he has started work there, he will go to Hazelton. I presume he will be in Hazelton about Tuesday or Wednesday.

Our material for Mt. Carmel is all practically ordered, and we are assured of such early deliveries that I anticipate that there will be no delay in the installation of this plant, and I have every reason to believe that the Hazelton work will go forward with the same rapidity.

Very truly yours,

Zak I

1883-11-16

November 16th. 8

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have your favor of the 13th. inst., and in reply beg to state that it is impossible to send you an estimate for Cincinnati until we have the position of the central station lots.

The letter as to this will go forward to you to-day.

We can do nothing with the new estimate for Piqua until you give us the exact size of the lot, and the information written for some days back.

Very truly yours,

A handwritten signature, possibly reading 'S. J.', is written in dark ink.

1883-11-16

November 10th,

3

C. E. Spiers, Esq.

23 Murray Street, City.

My dear Spiers:-

Have you got a cut of Mr Edison's arc lamp?

Prescott wants it for his book.

Very truly yours,



1873-11-16

November 16th.

3

Mrs. E. Adams,

180 Irving Street,

Woodside, N. J.

My Dear Mrs. Adams:-

Can you tell me the exact date that your late husband first sailed for England? We want to get at it in connection with some of our business here *on telephone suits*

Yours very truly,



1853-11-16

November 18th. 3

Paul D. Dyer, Esq.

care A. Stuart, Esq.

Cincinnati, Ohio.

Dear Sir:-

Under separate cover we send you some of our special  
now  
reports, which we desire you to fill out for each town you canvass.  
Please be careful to obtain as reliable information as you can  
possibly get in regard to local prices. We also wish you would  
note on this report the date you arrive in a town and the date you  
leave it.

Very truly yours,





1883-11-16

November 16th, 3

Paul D. Dyer, Esq.

New Orleans, La.

Dear Sir:-

Referring to your favor of the 13th. inst. with relation to the trouble at Circleville, Mr. Edison state that the fault was with the engine used. He cannot imagine how the local people expect to bring the lamps up to the candle power with ~~the engine~~ it running at 1100 revolutions when 1500 revolutions is required. Rotary engines generally take in steam at 100 lbs. and let it out at 40 lbs. Four horse power is all that is required.

Very truly yours,

*Edison*  
*P.S.*

1883-11-16

November 16th. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We enclose herewith blue prints of the districts of  
*Haystack*  
Tiffin and Mt. Carmel, together with plans of our central stations.

We desire you to send us a complete list of the electrical material required in each of these places, *as quickly*  
*as possible*

Very truly yours,



Enclosure.

1893-11-16

November 18th. 3

Paul A. Dyer, Esq.

Post Office,

New Orleans, La.

Dear Sir:-

I enclose you herewith letter of introduction to Mr  
W. B. Berliner, of the La. Telephone Co., New Orleans, La., who is  
the gentleman you are to see there.

Very truly yours,

1883-11-16

November 10th. 3

A. Stuart, Esq. Secty.  
Cincinnati, Ohio.

Dear Sir:-

In accordance with the attached forms we send you under separate cover by same mail two blue prints each of Synthiana and Haysville. One of these prints is marked with the red circle, in which it is desirable to obtain options on lots, and the other one shows where we propose running our lines. We send you these latter in order that you may inspect them and if there are any difficulties which would prevent our following the course shown on same, we shall be glad to be advised of it. Furthermore if there are any additions which you wish to make or any portion of the districts marked that you desire to cut off, we wish you would advise us by letter to that effect, at the same time returning the charts which we send you.

We pursue this course in order that it may not be necessary for us to make more than one electrical determination for each place, as those determinations consume a great deal of time, which at the present moment we can but ill afford to lose. The date when you will receive the estimates for those places entirely depends upon the degree of promptness which is used in

DEAR SIR:-

CHICAGO, ILL. OCTO.

YR. OFFICE, 226, 226A.

returning to us the information asked for herein.

Very truly yours,

*W. H. L.*  
*I*

Enclosure.

1283-11-16

November 16th. 3

Messrs. Borgmann & Co.

302 Avenue B, City.

Dear Sirs:-

The bearer of this, Mr. Wikler, has been engaged by us to take charge of the construction of our pole lines for village plants.

Will you please confer with him as to any stock you may have on hand which might be useful to us in this work, as I may possibly be able to take it off your hands.

Yours truly,



1883-11-16

November 16th.

3

Patrick S. Carter,

Telegraph Instrument Makers,

Philadelphia, Penna.

Dear Sirs:-

Can you possibly give me the date that you made the first telephones for me, together with a copy of the order, copy of the bill you rendered me and where the telephones were delivered and any such information that might suggest itself to you.

If you have copy of the drawings used by you in making the above referred to telephones, I should be glad if you could loan them to me.

Very truly yours,

*Wm I*

*I refer more especially to the Carbon  
Telephones*

1883-11-16

November 16th. 3

E. T. Greenfield, Esq.

41 Ann Street, City.

Dear Sir:-

The bearer of this, Mr. Hibler, has been engaged by us to take charge of our line construction work for village plants. Mr. Hibler informs me that he is acquainted with you. If you can give him any information such as your experience at Sunbury and Shemokin would suggest to you, I shall be much obliged.

Very truly yours,





1853-11-16

November 18th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N.Y.

Dear Sir:-

In accordance with the attached form we send you under separate cover by same mail two blue prints of Poughkeepsie, one marked with a red circle, within which it is desirable to obtain options on lots, and the other shows the course of our street installation. In relation to the latter, we wish you to examine it very carefully, and if there are any obstacles which would prevent our running the lines as shown thereon, we desire you to advise us of them by letter, also make any suggestions you may think desirable. Furthermore if you wish to add to the district or cut off any portion of it, we desire to be advised of the fact with accurate information as to alterations. We pursue this course in order that it may be necessary for us to make only one electrical determination, which shall be final, as at the present time we are so pressed with work that we can very ill afford to lose time over anything.

Very truly yours,

*Zak*

1883-11-16

November 16th. 3

H. Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Will you please send me an exact statement of the customers connected, the number of lights they are burning, the amount of their bills, for last month. Those collected and uncollected. Also the amount of the running expenses of the station for last month and ~~also~~ other detailed information that you can give me, as I have again and again asked you. What I desire is a detailed statement and not the general remarks to the effect that everything is running smoothly.

Yours truly,

*W. L.*

1883-11-17

November 17th. 3

N. C. Yost, Esq. Treas.

Edison Electric Illuminating Co.

Hazleton, Penna.

Dear Sir:-

I beg to enclose you herewith contract signed by myself for the erection of a central station plant at Hazleton, Pa., and I have the pleasure to acknowledge receipt through Mr. Shaw of your check for \$1,000. and the draft of your President drawn in my favor at ten days sight for \$4,171.10, the latter being accepted by you on the 15th. November.

My Superintendent leaves here to-morrow night for Mt. Carmel, Pa., and immediately he gets through there, which will be about Tuesday, he will proceed to Hazleton and start the work there. Meantime all our material has been ordered, and we will push the construction of the station as vigorously as possible.

Very truly yours,

Jac  
By S. J. Attorney

Enclosure.

1893-11-17

November 17th. 3

P. B. Shaw, Esq.

Williamsport, Penna

Dear Sir:-

I have your favor of the 14th, inst. enclosing two signed copies of the contract for the installation of a central station plant for the Edison Electric Illuminating Company of Hazleton, also check of the Treasurer for \$1,000. and also a draft drawn by the President and accepted by the Treasurer for \$4,171.10 payable the 20th. of this month. I have acknowledged receipt of same to the Treasurer of the Company.

Very truly yours,

*Yours*

November 18th. 3

Straight Line Engine Co.

Syracuse, N. Y.

Dear Sir:-

I have your favor of the 18th. inst. and note contents.

I will discuss the matter with Mr. Sweet on his visiting me here in New York. I have wired you this morning that I will see him any day that he may call upon me.

Very truly yours,

Zach  
l

1883-11-19

November 18th. 1883

John De Lacy Duffy, Esq.

132 Nassau Street, City.

Dear Sir:-

Referring to your favor of the 17th. inst., all we require is men to make maps to scale here in our office from data already obtained by our agents outside.

Very truly yours,

A handwritten signature, possibly reading 'S. H.', is written in dark ink below the closing text.

1883-11-19

November 18th. 8

S. B. Eaton, Esq. Prost.

City:

Dear Sir:-

We have your favor of the 18th. inst., and can have the estimates you refer to made immediately we learn from Mr. Markle the towns he requires canvassed.

Can you give us his address, as we wish to reach him by telegraph immediately, in order to give our canvasser, who is now in Madison, instructions to proceed into Mr. Markle's territory?

Very truly yours,

*Wm*  
*J*

1883-4-19

November 16th. 3

Frank H. Mc.Cormick, Esq., Pres.  
Williamsport, Penna.

Dear Sir:-

Will you please have the certificates of stock due Mr Edison, under his basis of settlement with you, issued in his name immediately the authorization of the increased capital is effected. Of course if the Company decide to pay the cash instead, we shall be glad to receive your Treasurer's check for the balance still due.

Very truly yours,

*SL*  
*P.S.*



1883-11-19

November 19th, 1883.

Gustav Soldan, Esq. Supt.

104 Goorek Street, City.

Dear Sir:-

Mr. Hutchinson reports to me that he is very anxious to get some more 30 light machines. Will you please hurry the orders you have for them, namely, the balance of the ten on an old order and the ten which I recently ordered from you.

We are also urgently in need of 200 and 300 light machines.

I enclose you herewith an order for ten 200 light machines, and would urge you to get the requisitions ~~made~~ quickly as possible. I am urgently in need of at least five of them.

Yours truly,



1883-11-19

November 16th. 1883.

Gustav Soldan, Esq. Supt.

104 Georek Street, City.

Dear Sir:-

Will you please alter my order No.25, for ten 200 light dynamos, to five 200 light dynamos, as I find that will be quite sufficient for present purposes.

I enclose you herewith a further order (No.26) for five 300 light dynamos.

I may state that every dynamo ordered by me to built has now been placed. This remark applies equally to the orders some-time previously placed and those sent to-day, including the above, and you will therefore see how necessary it is to push them through quickly.

Yours truly,



1583-11-19

November 18th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I beg to enclose you herewith all the letters we have received recently from Shamokin with relation to the engine there. I received a second telegram yesterday stating that a second engine had broken down. The reports from our man do not seem to agree exactly with the statement of the case as shown in your favor of the 14th. inst.

Will you please return this correspondence as soon as possible, and oblige,

Very truly yours,

*Zah*  
*I*

Enclosure.

1883-11-19

November 18th. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 14th. inst., we will supply Mr. Lord with the spare dynamos at the earliest possible moment, but at this writing it is impossible to say how soon <sup>that</sup> ~~we~~ will be. We are straining every nerve to turn machines out, but when I tell you that the patterns were only completed the last of last week you will understand that it will take a little time before we can have the machines ready to deliver to Mr. Lord, inasmuch as we have Isolated Company orders of from three to four months standing, which take precedence of everything else.

Very truly yours,



1883-11-19

November 18th. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.,

Lawrence, Mass.

Dear Sir:-

I think we ought to pay Mr Parry a salary just to cover his boarding expenses, or I might pay his board and a nominal salary besides. Will you please let me know how useful he is to you and we will pay him accordingly?

I have another man who is by no means as well posted as Parry, but whom I should like to send out to a station to learn the practical work. <sup>if you can use him</sup> I was thinking that you might well do this if you were to put him say under Doubleday at Fall River.

Will you please let me know if you can make any disposition of his services, <sup>he is here</sup> ~~as a bookkeeper~~, and all the experience that he has got has been in Georel Street for the last few months, and before he went there he was with Messrs. Verity, of London. I fancy he was their bookkeeper, but he has a liking for mechanics, and I should very much like to make use of him if only <sup>as</sup> a favor to Mr. Johnson. Of course if you <sup>start to</sup> ~~can~~ use him and find out afterwards that he is of no use, we could tell him so.

Please advise us as to this at your early convenience.



183-11-19

November 10th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to your favor of the 10th., I telegraphed you on Saturday to send an engine, with the same size pulley as that previously sent, to Shamokin. I received a telegram yesterday from Shamokin stating that the second engine had broken down, and immediately wired you to send a man on to Shamokin at once. I have wired you this morning asking you to answer my telegram, as I am very anxious to know whether the engine has been shipped and if the man has started, as I am very much afraid that our Shamokin plant would come to a standstill, and this would be very disastrous. Every moment's delay in not sending your man there will cost us a great deal of money, as we are only able to run one engine now, which compels us to reverse the current through the motors and this prevents our getting any correct meter records.

Very truly yours,

*Zac J*

*Have since got your telegram saying engine  
leaves for Shamokin tomorrow*

1853-11-19

November 18th, 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 15th. inst. to Mr. Edison,  
he now instructs me to send you a copy of the questions and answers  
but wishes to impress upon you that this is solely for your use.

Very truly yours,

A handwritten signature, likely of Thomas Edison, consisting of a stylized 'E' followed by a flourish.



1883-11-20

*Brockton* November 20th. 8

W. J. Jenks, Esq. Manager.

Brockton, Mass.

Dear Sir:-

Will you please inform me if you think we can take  
our experts away from Brockton right away. If not, what date  
would suit your convenience?

Yours truly,

*Jak*  
*I*

1893-11-20

November 20th. 3

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We beg to draw your attention to the fact that there is still ~~xxx~~ a balance of \$2,000. due to us under our contract with you for the erection of the plant at Shamokin. It was the understanding of our Mr Insull when in Shamokin last that the balance due at that date should be settled shortly from the proceeds of sales of \$3,000. of bonds. We have only so far received a remittance for \$1,000. on this account, and would esteem it a favor if you would oblige by sending us a check for \$2,000. to balance, so that we can close out our account.

Very truly yours,

*J. M.*  
*J*

1883/11/20:0

November 20th. 3

W. D. Rich, Esq.

Bush House,

Bellefonte, Penna.

Dear Sir:-

We are notified by our freight broker that he has secured for us the following rates:-

For Tiffin, Ohio, via the Lackawanna & Mt Wreight Line, first class, 50 cents, second class, 40 cents, third class, 35 cents, fourth class, 27 cents. Each of these rates is subject to a rebate after the arrival of goods at their destination, as follows, first class, 6 cents, second class, 4 cents, third class, 3 cents, fourth class, 2 cents. To Newburgh, via the New York, West Shore & Buffalo, first class, 20 cents, second class, 20 cents, third class, 10 cents, fourth class, 10 cents, and carload lots are to be billed at  $7\frac{1}{2}$  cents per hundred pounds, and anything less than carloads, but not less than 5000 pounds is to be billed at 6 cents. To Mt. Carmel, Penna., via Philadelphia & Reading, first class, 40 cents, second class, 32 cents, third class, 25 cents and fourth class, 18 cents, upon shipments in carloads we can obtain a rate of  $14\frac{1}{2}$  cents per hundred pounds, but on account

of the irregular manner in which it is necessary to be sent forward we do not expect to be able to take advantage of this rate of 14 1/2 cents.

Very truly yours,

By

1883-11-20

November 20th. 3

W. Preston Nix, Esq.

338 West Main Street,

Louisville, Ky.

Dear Sir:-

We have your letter of the 17th. inst. in reference to the option on the lot chosen for central station purposes in Louisville running out in ten days.

We enclose herewith map of Louisville, and beg to call your attention to the fact that if we can obtain a lot in Blocks 40, 41 or 42, which are marked in redlead pencil, it will reduce the cost of the street installation by about \$20,000. The most desirable point for this lot is where we have made a star in red. You will see that it would be economy to pay a good price for a lot in this locality, considering the heavy expenditures which will be avoided by doing so.

Kindly let us hear from you as quickly as possible as to what you can do in the matter, and oblige,

Very truly yours,

The T. A. Edison Constn. Dept.

By 

1873-11-20

November 20th. 3

Messrs. Harris & Robinson,

Trust Co's Building,

Hartford, Conn.

Dear Sirs:-

Mr. Hastings referred to us a letter from you a few days ago in which you requested a memoranda of the installations we have made and the amount of each contract. We beg to attach a statement giving the information you desire. The first column shows the nominal capacity of the plant, the second the number of lights included in the district wired and the third the total amount of the contract.

Very truly yours,

The T. A. Edison Constr. Dept.

By



1883-11-20

November 20th. 3

Spencer Borden, Esq.,  
P. O. Box 3311,  
Boston, Mass.

Dear Sir:-

In reply to your favor of the 10th. inst., which through  
press of work has remained unanswered until to-day, we beg to say  
that we were fully aware of the fact that we had not included  
spares in the estimates for Norwich and Natick. You will notice  
that the boiler capacity necessary for the operation of these  
plants is 93 horse power and we have supplied in each case a 14<sup>1</sup>/<sub>2</sub> x  
13 engine to do the work. By reference to the tabulated formula  
of indicated horse power at different initial pressures of steam  
in the Armington & Sims catalogue, you will find that at 350  
revolutions per minute the maximum capacity of the engines above  
referred to is 202.3 horse power with 100 lbs. pressure.  
In practice we usually employ about 120 lbs. pressure, and, in  
order to satisfactorily and efficiently operate a plant of the  
size of the one in question, the speed of this engine need not  
go over 250. On this account there is so much margin left that we  
consider it unnecessary to furnish a spare engine.

1882-11-20

In relation to the dynamo, the machines which we propose supplying are of the type known as the "Y" machines, and their maximum capacity is 507 lights. By this you will see that the actual capacity of each of these plants is 1,134 lamps, instead of the unit we employ, namely, 1,000. In the case of Norwich the conductors are calculated to carry 1,210 lights, as shown on the estimate, and in the case of Natick they have been calculated at 1,000 lights. In each of these instances the number of lights embraced by our street installation is the maximum number that can possibly be burning at any one time. In order to tax these conductors to their fullest extent it would be necessary that every light in every building in the whole <sup>district</sup> covered by them should be lit and this is an event which will never take place.

In relation to our proposed buildings for central station purposes, if at any time it is desirable to increase the capacity of the plant it can be done by making additions to the buildings, but inasmuch as our experience has proved to us that large and expensive buildings (expensive in comparison to the size of the plant) are derogatory to the acceptance of our estimates, we considered it advisable in each of these cases to design a building just sufficiently large and convenient for the working



secret collection of  
maximum capacity is 200 lights. By this you will  
maximum capacity of the also known as the A. A. machines, and their  
arranging one of the also known as the A. A. machines which are known as  
in relation to the same, the machines which are known as

1883-11-20

1883-11-20

3

of the plants we proposed to install at Norwich and Natick.

If in either case the local people, with whom we have to deal,  
desire a larger building erected, we will furnish plans and esti-  
mates for it.

Trusting that this explanation will satisfy you on the  
points in question, we are,

Very truly yours,

The T. A. Edison Constr. Dept.

By



1883-11-20

November 20th. 3

Spencer Horden, Esq.

Boston, Mass.

Dear Sir:-

We beg to return herewith letter and sketch addressed to Mr Hodgkinson by Mr. D. S. Bates.

In commenting upon the same, we would say that it is impossible for us to prepare such a map as we can estimate from unless we have a chart drawn to scale. We should like to obtain a chart of Webster such as we have described, but we do not feel that we can go to the expense of having a survey made of the town in order to obtain it. As a general thing in places of this size there is a city engineer, and from this gentleman we obtain the chart we require at a cost which has never yet exceeded \$25., even in places of the size of Kansas City. We shall be glad if you can suggest any way in which we can obtain the maps we have asked you for, and trust that you will favor us with an early response to this letter.

Very truly yours,

The A. Edison Constr. Dept.

By



1873-11-20

November 20th.

3

My Dear Mr. Waterhouse:-

I leave here for London on the 11th. December, and shall be glad if you will kindly cable if there are any matters requiring Mr. Edison's <sup>particular</sup> ~~particular~~ attention prior to my departure, so that I can get them all in shape before I leave.

I thought possibly there might be some documents in connection with the amalgamation scheme requiring his signature, and it would be necessary for me to arrange to have them fixed up on their arrival here before I leave, otherwise they would, in all probability, have to remain over until my return the end of January.

While in London I hope to do myself the very great pleasure of calling on you, and will then give you some idea of the progress of our lighting business in this country.

I remain, My Dear Mr. Waterhouse,

Very faithfully yours,



1893:11-20

November 20th. 3

Messrs. Armington & Sims,

Providence, R. I.

Dear Sirs:-

When you are making shipment of our Newburgh engines, please forward them by the New York & New England Railroad, as we have a special rate on that line which we desire to take advantage of.

Very truly yours,

The T. A. Edison Consth. Dept.

By

A handwritten signature, possibly "S. I.", written in dark ink.

1883-11-20

November 20th. 3

W. S. Andrews, Esq.

Care Edison Electric Illuminating Co.,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 15th. inst., and have ordered the material you required.

In relation to the large copper wire .43 inches diameter, we find that the Ansonia people cannot supply this for about three weeks. We are trying to get it elsewhere, but at this writing cannot tell how successful we may be.

In order to avoid a repetition of the delay which may take place in furnishing you with this material, we would suggest that you send us a statement of wire and other material for inside work such as you think it would be advisable for us to carry in stock. Please let us have this as early as possible, so that there may be no delay when material is required for the balance of the installations now in hand.

Very truly yours,

The T. A. Edison Constr. Dept.

By



November 20th. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

We beg to enclose herewith map of the district of  
Holliston, together with plan of the central station which we  
propose erecting at that point, and wish you to send us information  
at the earliest possible moment in relation to what electrical  
material we will require for the inside of same.

Very truly yours,

Thos. A. Edison Constn. Dept.

By

*A. E. T.*

1893-11-21

November 21st. 3

W. D. Rich, Esq.

Bush House,

Hellofonte, Vienna.

Dear Sir:-

Referring to your arrangements with us as Superintendent of Construction, we beg to advise you that we have credited your account with the amount of \$300, on account of the remuneration to be paid you outside of salary.

Please advise us what disposition you wish made of same.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1913-11-21

November 21st. 3

Colonel Goddard,  
City.

My Dear Colonel Goddard:-

What evening can you spare to go into the  
question of bookkeeping for our local illuminating companies,  
which you so <sup>kindly</sup> promised to do sometime back? What I would like to  
do would be to arrange a meeting with yourself, Hutchinson, Tate  
and myself, and I have no doubt that if you can make an appoint-  
ment that the remainder of us can accomodate ourselves to your  
time.

Very truly yours,

A handwritten signature, possibly 'S. H.', in dark ink.



1583-11-21

November 21st. 3

Messrs. Hale & Wolcott,  
30 Court Street,  
Boston, Mass.

Dear Sirs:-

Referring to the correspondence you have had with  
Mr Lowrey with relation to the suit Welch vs Edison, I beg to  
state that I have been trying to get at the whereabouts of Mr  
Milton Adams. I now learn that he is in the City of Mexico and  
will return to Europe via New York. I shall hope to advise you  
early of his return, so as to enable the necessary examination of  
him to take place in New York.

Very truly yours,

*Wm*

1883-11-21

*Telegraph*

November 21st.

3

Oliver E. Lyman, Esq.

45 William Street, City.

Dear Sir:-

Referring to your favor of the 15th. inst., I beg to state that I have not written any paper on Underground Tolographic Systems. There is no reason whatever, except on the score of expense, why all wires operating electrical apparatus should not be underground.

Very truly yours,

*John I*

1553-11-21

November 21st.

3

Compagnie Continentale Edison,

Paris, France.

Dear Sirs:-

Referring to your favor of the 15th. October, I understand that the papers in the Austrian suit have been sent forward to you sometime back.

Very truly yours,

*Fuer*  
*I*

1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Yours of the 30th. inst. to hand.

We yesterday ordered to be shipped to you some marine  
glue from the Central Station.

I cannot say at this moment when Conant will go to  
Lawrence. I am trying to get Leonard from Brockton to go there,  
but I do not know, however, whether they can spare him from  
Brockton yet.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1783-11-21

November 21st, 18

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to your bill of the 20th. inst. for one No. 32, 8.2 x 10 engine, I beg to notify you that we do not propose at present to place the amount of the bill in question to your credit, inasmuch as we are not at all satisfied that the trouble with the engine at Shamokin is the fault of our people there. If the cause of the failure of the engine is owing to the fault in the engine itself, we shall not expect to pay for a new engine being sent to Shamokin. Pending the settlement of this matter we will hold the bill.

Very truly yours,

*J. H. I.*

1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Kans.

Dear Sir:-

Referring to your favor of the 19th. inst., we are going to have Crowder test the sulphate of zinc such as sent to Lawrence. We may remark that we ordered exactly the same as that used by the Edison Electric Illuminating Company's down town station.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I have your favor of the 20th. inst. as to short postage on the map sent you. I feel very much annoyed that such a blunder should have occurred in my office. Under separate cover the maps have been forwarded to you to-day.

I have written Perry to-day stating that we will pay him \$12. per week and his travelling expenses when ordered from one town to another. I think this will please him to start on.

The gentleman, whom I propose to send to Fall river, will leave here immediately we have a telegram from you on the subject.

Very truly yours,

Thos. A. Edison Constr. Dept.

By



1883-11-21

November 21st. 3

Major Flood Page, General Manager,  
Edison's Indian & Colonial Electric Co.,  
4 & 6 Throgmorton Avenue,  
London, E. C. England.

Dear Sir:-

Your favor of the 17th, September came duly to hand.

I have been unable up to this writing to send you the prices of our machines in consequence of the models not having been turned out until quite recently. I now send you tabulated statement which will show you the prices, speed, size &c. of the various machines we are now building. It is very difficult to get up a sample installation such as you ask for, and I think you would do better to draw on the experience of the London Company in this connection.

Very truly yours,

*Tate*



1883-11-21

November 21st, 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Your various letters as to Tiffin have duly come to hand.

We have delayed sending a wireman to Tiffin in order to try and avail ourselves of a cheaper form of wiring, which we have not been able to do up to this writing as it has not been accepted by the Board of Fire Underwriters. They have, however, the matter under advisement and promise to consider it and either refuse or accept our new form of wire. Meantime we have decided to send our wireman to Tiffin, and hope to be able to despatch him in the course of about three days. We must confess that we think you are in undue haste to get the ~~houses~~<sup>necessity</sup> ~~wired~~ in Tiffin, and we fail to see the ~~necessity~~ for your extreme anxiety in relation to the matter. Our work at Tiffin will not be interfered with by the frost.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ry



1893-11-21

November 21st.

3

Societe D'Appareillage Electrique,

2 Boulevard du Theatre,

Geneve, Switzerland.

Dear Sirs:-

We have your favor of the 18th, October,

We hope to send you in the course of a week or so  
drawings of our 25, 50, 200 and 300 light dynamos.

We send you herewith statement of the speed and size of  
pulley of each of our machines we are now building, together with  
prices at which we are prepared to ship them F.O.B. New York City.  
We are prepared to take any orders from you and construct machines  
and undertake to ship same about twenty (20) or thirty (30) days  
after receipt of order. If your orders are small it is highly  
probable that we would be able to ship <sup>immediately</sup> ~~immediately~~ on receipt of  
order. The reason that the catalogue of the Edison Company for  
Isolated Lighting contains so little about dynamos is that it was  
issued at a time when my experiments in changing over our machines  
rendered it impossible for the Isolated Company to get at suffic-  
ient data to enable them to give proper information about the

1888  
1893-11-21

2

mos.

The Electric Tube Company does not publish any catalogue. I will, however, obtain from them a pricelist and forward it to you in the course of a day or so.

The other inquiries contained in your letter shall receive my attention within the next week, and I will endeavor to answer you fully in relation thereto.

Very truly yours,

Zak  
J

Enclosure.

1883-11-21

November 21st. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am in receipt of your favor of the 16th. inst. covering contract between myself and the Bellefonte Company for the installation of an electric light plant in Bellefonte. I have also the draft of the President drawn in my favor on the Secretary of the Company. I cannot act on this matter until I get a copy of the estimate as amended. Immediately I get this I will communicate with the Members of the Bellefonte Company in relation to the matter. Meantime our work will be pushed ahead. I am expecting that Mr. Rich will be in Bellefonte either to-morrow or the next day.

Very truly yours,

*Shaw*

1883 11-21

November 21st.

3

Societe D'Appareillago Electrique,  
8 Boulevard du Theatre,  
Geneve, Switzerland.

Dear Sirs:-

Referring to your favor of the 18th. October, I beg  
to state that the contract with Messrs. Siemens & Halske refers  
alone to Germany. It is made between the Societe Electrique  
Edison of Paris and a Berlin Syndicate. I cannot understand how  
Messrs. Siemens & Halske can inter~~pose~~ with your business, as they  
have no rights whatever outside of Germany. I am now in course of  
negotiation with my Paris Company with a view to getting better  
protection of our mutual interests in Switzerland. The competi-  
tion which the Paris Company have entered into against your Com-  
pany's sales is entirely unauthorized by me, and I am doing all  
that is in my power to prevent the same.

Very truly yours,

*Luc*  
*l*

1883-11-21

November 21st. 3

G. W. Wilber, Esq.

Hotel Woidmeister,

Atlanta, Ga.

Dear Sir:-

We have your favor of the 17th. inst..

We cannot state exactly where you will go after you get through at Atlanta, but will let you know as soon as possible

Many thanks for your kind wishes in connection with my trip to Europe, but I shall be here for two or three weeks yet.

Very truly yours,



1913-14

November 21st. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to notify you that from this date you will be credited with a salary at the rate of \$5. per day, instead of \$4.50 as heretofore.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883.11.21

November 21st. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Owing to the rapid growth of our business and the possibility of our having quite a large electrical staff, we find it necessary to place someone in control of the electrical part of our central station work. We have decided to give you control of all electrical work in our stations and of the men engaged in such work, whether in fitting up stations or in running same after <sup>that</sup> ~~it~~ has been started. We shall pursue the same course with relation to the interior of the station as that followed for some time past, namely, we shall look to you to communicate to us what <sup>it</sup> is desirable each station should contain electrically, and also how the instruments &c. shall be arranged.

It would seem to us desirable that you should not spend all your time in one place, but you should make such disposition of your men as to enable you to go from place to place and keep a proper oversight of the work.

Mr. Rich, as Superintendent of Construction, is now building Fall River, Mt. Carmel, Bellefonte, Hazleton, Tiffin and



Newburgh stations. Immediately these stations are in condition to have the electrical part of the work done it will be necessary for you to start same. You should also be on hand to start the stations when we are ready to light up.

At present our staff is as follows, Mr. Conant, Mr. Doub-  
Today, Mr. Leonard, Mr. Oakley and, as my last letter indicates to  
you, Mr. Perry. These gentlemen will be under your direction, and  
we shall look to you to state exactly what disposition should be  
made of them.

We think it would be well, immediately you have started  
on Fall River, for you to repair to New York and consult with us  
in relation to the matters contained in this letter.

Of course we shall look to you to see that your staff  
works in unison with Mr. Rich.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883-11-21

1883-11-21

November 21st.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Your favor of the 4th. came to hand this morning.

Edison states that he thinks very well of the idea of a 1000 light wire wound armature.

We have now sent models of the 25 and 50 light machines to Germany. This will give them models for the 25, 50, 100 and 400 light machines. I propose cabling and asking them whether they want model 200 and 300 light machines.

We were all delighted to hear that you thought of coming home. My letter of about two weeks back will have given you full information as to what we are doing here.

*But* I could doubtless sell your Isolated Stoopk at par, ~~by~~ am inclined to cable you asking whether it is necessary to do this in view of Edison's authorization to draw on him for \$1,000.

I do not understand now whether you wanted \$1,000. or \$10,000., hope it is the former, as money in the latter amount is very

Chicago letter

Memorandum

3

scarce horeabouts. I do not anticipate that I can get more than par for Isolated stock, it is nominally quoted at 120 to 130, but strictly entre nous I may state that it is a question whether the Isolated Company will pay their dividend this year, because their expenses are something terrible, and it looks very much as if it is the old tale of bad management!

We have not yet been able to get a man to run the Armington and Porter engines, but as soon as we do so will send him forward.

Very truly yours,



1883-11-21

November 21st. 3

M. C. Holknep, Esq. Treas.

Edison Electric Illuminating Co.

Highland National Bank,

Newburgh, N. Y.

Dear Sir:-

We beg to acknowledge receipt <sup>your favor</sup> of the 19th. inst. covering draft for \$0,500., being twenty five per cent due me under the terms of contract dated October 29th. 1883.

My engineer will be in Newburgh to-day to consult with the builders in relation to the building. We are pushing our street mains as quickly as possible, and will commence shipping same sometime this week, and I am in hopes that our men will be in Newburgh to lay the mains sometime next week.

Immediately your building is well under way we can push our work very quickly, as we have the material ordered, and are simply waiting the finishing of the building.

Very truly yours,

AS  
attorney

1583-11-21

November 21st. 3

George P. Miss, Esq. General supt.

Chicago, Ills.

Dear Sir:-

Again referring to your favor of the 14th. inst., I beg to give you below copy of the memorandum received from Mr. E. H. Johnson in relation to the trouble you complain of with the Automatic regulators:-

"I presume this is due to the increased resistance of the magnet coil when heated. The remedy that occurs to me is to occasionally re-adjust the spring. I have not noticed any such action in our own."

Very truly yours,

*J. H. L.*

1893-11-21

November 21st. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I have your favor of the 19th. November, and have the pleasure to enclose you herewith assignment of twelve and one half per cent of my <sup>Contract</sup> ~~agreement~~ with the Edison Electric Illuminating Company of Bellefonte, Penna. I also enclose you copy of the agreement referred to for your files.

You omitted to send me the formal order for the wire, which heretofore I have been in the habit of executing.

Very truly yours,

*JAC*  
*J*

Enclosure.

1883-11-21

November 21st. 3

G. H. Cooke, Esq.

Post Office,

Grand Haven, Mich.

Dear Sir:-

After you get through at Madison, Wis. please canvass Grand Haven, Miles, Battle Creek and Tpsilanti, all in Michigan. It would be as well for you to communicate with Mr John R. Markle, P. O. Box 97, Detroit, Mich., as it is for his account that we are making the canvasses. Please canvass these towns in the order <sup>are</sup> they named.

Very truly yours,



1883-11-21

November 21st. 3

W. H. Dwyer, Jr. Esq. Treas.  
Edison Electric Illg. Co.  
Fall River, Mass.

Dear Sir:-

Your letters and telegrams as to sending Greenfield on to Fall River came duly to hand, and we wired you last night that Fitch would leave this evening with one man and suggesting that you had better look up other men in the meantime. Of course the shorter the time that you keep Mr. Fitch in Fall River, the less will be the expense to yourself. I do not know exactly what you will have to pay for his services, but I presume it will be a small amount <sup>over</sup> ~~on~~ ordinary wages and board. However, I shall charge you whatever Greenfield charges me.

I am strongly of the opinion that your Company should have nothing to do with the wiring, that is so far as the consumers are concerned. You know my views fully on this subject, and I will therefore not trouble you individually.

Very truly yours,

Thomas Edison Constn. Dept.

By

St



1883-11-22

November 22nd. 3

Paul D. Dyer, Esq.

101 Carondelet Street,

New Orleans, La.

Dear Sir:-

I enclose you herewith information as to part of the  
territory that it is desired should be canvassed in New Orleans.  
Of course you will canvass considerably outside of the area named.

Yours truly,

*SD*  
3

1883-11-20

November 22nd, 3

H. M. Doubleday, Esq.

Care Edison Electric Illg. Co.

Lawrence, Mass.

Dear Sir:-

I send you herewith a book of questions and answers, and would draw your attention to the fact that it is marked for private use only. You must not show this book to anybody whatever without the permission of this office. I also return you your answers, on which you will notice a few remarks by Mr. Edison. He says that the answers are very good, and that you can post up with the further assistance of the book sent you to-day, and Mr. Andrews. Please return your answers when you have looked over Mr. Edison's remarks.

Very Truly Yours,

Thos. A. Edison Constn. Dept.

By



1883-23

Danbury

November 22nd. 3

Messrs. Harris & Robinson,  
Trust Co's Building,  
Hartford, Conn.

Dear Sirs:-

We have your favor of the 19th, inst.

We were unable to answer it by return mail as the writer was out of town. You will find in the Danbury estimate under the head of "Starting Station" 250 lamps are put in at sixty cents each, but since the estimate was made the price has been reduced to fifty cents. The customers do not pay for the lamps. They are paid for by the Company, just the same as the Company would pay for coal in the running expenses. In fact lamps are part of the running expenses. The local company will have to pay fifty cents for the lamps, which is the same price as the Lamp Factory sells them to all its customers. The lamps you refer to are the sixteen candle lamps, and these are sold at forty cents. Our lamps will average upwards of 600 hours life, but no absolute guarantee is given as to this. As a matter of fact they average considerably more than 600 hours, and we set this time of burning in order to be within the mark.

We sent you yesterday all the information we have about  
Brockton.

3  
Duke's Roadway

1883-11-22

Handwritten


1883-11-22

2

The Newburgh Company was formed sometime ago and the plant is now being erected. Within the last week we have closed contracts for Bellefonte, Penna. 800 lights, Mt. Carmel, Penna. 500 lights, Hazleton, Penna. 1,000 lights, and these plants are now being erected. Besides these we are running a plant at Tiffin Ohio for 1,000 lights. We have in all six central stations now in the course of construction, besides Sunbury, Shamokin, Lawrence and Brockton, which have been running some considerable time now.

Very truly yours,

Thos. A. Edison Constn. Dept.

By 

1883-11-22

November 22nd. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Friend Hughes:-

Again referring to your favor of the 15th. inst.,

Mr Edison says that he does not like the idea of lighting Rondout  
and Kingston in the way you <sup>state</sup> ~~suggest~~. I would suggest that talk  
to Mr Edison about the matter the next time you see him.

Very truly yours,

Thos. A. Edison Constr. Dept.

By 

1883-11-20

*Bergmann*

November 23rd.

3

Messrs. Bergmann & Co.

253 Avenue B, City.

Dear Sirs:-

Have you received from Milan two sockets? We have a letter from them in which the following occurs:-

"We have sent to Bergmann & Co., upon the suggestion of Mr. Bailey, two sockets out of the 500 of the last shipment. We have found them so roughly made, besides the general defects of the new model of key sockets, that we will not take them without a reduction in price of not less than fifty per cent."

Very truly yours,



1883-11-22

November 22nd. 1883.

David Wilson, Esq.

645 West 33rd. Street, City.

Dear Sir:-

Will you please make one set of zincs for the 200  
light machine of the metal you would propose using, providing we  
gave you orders for our zinc castings at 5 <sup>3</sup> 4 cents per pound.  
What we want to get at is the quality of the metal, how we can  
work it and its tensile strength.

Please let us have this as early as possible.

I enclose you formal order to cover it.

Very truly yours,

The Edison Machine Works,

By 

1883-11-22

November 22nd:

3

Domas Barnes, Esq.

20 Park Row, City.

Dear Sir:-

Referring to your favor of the 7th. inst., my opinion on the application of electricity to cars is that the motor should in most cases be placed directly under the cars, and that for small roads, such as street railroads, elevated railroads in New York or the underground railroad in London, electric locomotion is the coming method. I think that after one road has been operated in this country electrically, so as to gain actual experience and a chance to surmount what difficulties and objections may be found, that success would be comparatively easy.

Very truly yours,

*Tak*  
*9*



1883-11-22

November 22nd, 8

J. H. Corry, Esq.

Lock Box 54,

Elgin, Ills.

Dear Sir:-

Referring to your favor of the 10th. inst., there is no substance that can be used in the place of carbon pencils for an are light that will not wear away.

Very truly yours,



1873-11-22

November 22nd. 3

James Harris, Esq. Secty.

Bellefonte, Pa.

Dear Sir:-

I have your letter of yesterday's date, together with plan of building. The size of building you give us is 28 x 70. The size of building we have allowed for is 20 x 40. The extra amount telegraphed to Mr. Shaw for which we increased the 500 light plant to 600 lights <sup>was</sup> entirely approximate, and on <sup>revising</sup> ~~revising~~ it we find that we can erect a brick building for you of 20 x 40, instead of the frame building, as called for in the estimate. <sup>above</sup> We had no idea when Mr. Shaw telegraphed for the additional estimate that he proposed to close a contract on the basis of it, or we should have written a letter reducing it by several hundred dollars. We cannot put a building up of the size that you name for the price given in our estimate. We understood from Mr. Shaw that this whole matter was settled, and that our plans and estimates were accepted, and we have consequently instructed our Superintendent, Mr. Rich, to build the building 20 x 40, and have this day telegraphed him to construct a brick building instead of a frame building. The building is so arranged that at any time it may be thought advisable to increase your plant it can be done

1883-11-22

2

by enlarging the building economically.

Mr Rich is now in Bellefonte and will no doubt see you about these various matters, but his instructions to put up a building 20 x 40 are absolute, and if you require any alterations, I would request you to advise me of it immediately, but I would warn you that if such alteration is requisite it will very materially interfere with the installation of the plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

1893-11-22

November 22nd. 1893.

Davenport, Treney & Co.

Jersey City, N. J.

Dear Sirs:-

Referring to my interview with your Mr. Davenport this A. M., I beg to inform you that our Superintendent, Mr. Saldan, will call on you and give you an order for one zinc base as a sample. I wish to get at the quality of the metal, how we can work it and its tensile strength. After we have worked your castings in our shop, we will then settle about giving you an order. I am compelled to pursue this course of a bid I have from the man who is now making our zinc bases.

Very truly yours,

The Edison Machine Works,

By 

Very truly yours,

November 23rd.

3

S. Elliott, Esq.

Designer & Builder of Special machinery.

Newton, Mass.

Dear Sir:-

I have your favor of the 17th. inst. Mr. Jackson worked for me a year or more, and I believe him to be a thoroughly first class mechanic, and especially good on experimental work. He is possibly rather proud of his ability, perhaps too much so, but still I found it very easy to get along with him. I always found him sober and reliable.

Very truly yours,

*Jas*  
*I*

1883-11-20

November 22nd. 83

Thomas P. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

Will you kindly ask Mr. Floyd if he would undertake wiring jobs at Mt. Carmel and Bellefonte, providing we can get the work for him. We might find it convenient to use his men at those places, <sup>please</sup> providing he is willing to give attention to the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1893-11-22

November 22nd. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Your favor of the 18th. inst. came duly to hand.

We cannot understand that there should be trouble with either the marine glue or sulphate of zinc, as we order exactly what is used at the Central Station. We are, however, arranging to have the sulphate of zinc tested by Crower at Goerck Street, and with relation to the marine glue, Mr. Chinnock has promised to ship some to you. I note what you say about clear glass bottles and will attend to it in the future. I will have the fixtures you refer to sent on. I will hurry the various material you ask for and I can assure you that we invariably do this anyway.

Very truly yours,

Thos. A. Edison Constr. Dept.

By



1883-11-22

Personal.

November 22nd, 83

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I wish you would pay particular attention to the movements of Leonard. Judging from the postmark on his letters he must spend a good deal of time on Boston. Certainly after you leave Lawrence he should stay there at nights and in the day time. The fact is I do not feel very much confidence in him, and I want to know whether I am justified in my opinion or not.

Very truly yours,

89



1883-11-22

November 22nd.

W. D. Rich, Esq.

Dash House,

Hellefonte, Penna.

Dear Sir:-

I beg to enclose you letter from Messrs. James Harris & Co. giving prices of material at Hellefonte.

I telegraphed you this A. M. instructing you to put up a brick building in place of the frame building originally contemplated at Hellefonte. I also enclose you a blue print of the Hellefonte station.

I have a letter from James Harris, the Secretary of the Hellefonte Company this morning, in which he mildly suggests that we put up a brick building 20 X 70 for the same price as the one we proposed putting up. I have written him that it was my understanding that the estimate and arrangement of the station had been accepted, and that you were instructed to put up the building 20 X 40, and I have suggested that he should see you about the matter. What they want to get is an alleyway down the side of their property. This you can arrange by having the front of the building 20 feet. Of course if Mr. Harris objects to putting up the present building, you had better telegraph for instructions.

1883-11-22

2

I am going to send a wireman to Tiffin Saturday or Sunday night. All your material is ordered and well under way.

The Fall River steam piping was shipped from Philadelphia yesterday

I wired you this A. M. stating that there was trouble at Brockton, owing to the leakage of steam piping at the joints.

I trust you will be able to send someone to fix this prior to your return East.

If you propose coming to New York on your way from Penna. I will meet you at the office anytime except Saturday evening.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

Enclosure.

1973-11-22

November 22nd. 3

John T. Perry, Esq.

care Edison Electric Illg. Co.

Lawrence, Mass.

Dear Sir:-

I beg to advise you that from this date you will be credited with a salary at the rate of \$125 per week, and that should we require you to leave Lawrence to go elsewhere, we will pay your travelling expenses. As soon as you become more valuable in our work we shall hope to pay you better, but meantime the salary named above will cover your expenses of boarding, and inasmuch as we pay your travelling expenses, you will no longer be under any personal expense, which you were under in learning our work. Hoping this will prove satisfactory to you, I remain,

Very truly yours,

Thos. A. Edison Constn. Dept.

By 

1883-11-22

November 22nd.

3

Societe Industrielle et Commerciale Edison,

Ivry-sur-Seine, France.

Dear Sirs:-

Referring to your favor of the 12th. October, I beg to  
give you below prices of the various Arrington & Sims engines  
purchased by us:-

1	14 2 x 13 engine with two 30"	
	driving pulleys.....	\$ 1,950.00
1	14 2 x 13 engine without pulleys.	1,750.00
	13 x 13 engine.....	1,900.00
1	U 2 x 10 engine.....	775.00
1	G 2 x 8 engine.....	530.00

I presume the ten per cent royalty should be paid on the  
prices named.

Very truly yours,

*Edison*

1773-11-22

November 22nd; 3

George W. Soren, Esq.

care Porter, Lowrey, Soren & Stone,

3 Broad Street, City.

Dear Sir:-

I beg to enclose you herewith check for \$381.03, being  
balance of the amount due Judge Porter, Mr. Stone and yourself in  
connection with the sale of the Colonial Light Patents to Edison's  
Indian & Colonial Electric Company.

Will you please acknowledge receipt, and oblige,

Very truly yours,

A handwritten signature, possibly "S. J.", is written over the closing "Very truly yours,".

1883-11-22

November 22nd. 3

F. J. Sprague, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

I have your favor of the 18th. inst., for which accept my thanks.

I think you will find that in other stations arrangements have been made to put the indicators as far away from the dynamos as possible.

Your remarks about steam piping shall have the attention of Mr. Rich.

With relation to Fall River, we have work ~~xxxx~~ for you here in New York, when you get through at Brockton, in which you can be more valuable to us than at Fall River. We regret not being able to comply with your request in this connection.

We will send you the information about the spare dynamos in a day or two. It will, however, be some little time before the Brockton Company can get small machines.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1893-11-22

November 22nd, 3

I. W. Serrall, Esq.

140 Nassau Street, City.

Dear Sir:-

I have your favor of the 15th. inst., and in reply beg to state that I do not see that it is necessary to add anything to the arguments in interferences A to I and No.1. The argument seems to cover everything and to be quite full enough.

Very truly yours,

*Jas*  
*I*

1893-11-22

November 22nd. 3

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

I have your favor of the 17th. inst., but I have been unable to answer it until this morning, as I was not at all sure when I should be able to ship the machines to you. I am hoping now to be able to ship the machines sometime next week. I fully recognize the importance of your having them and I will not keep you waiting one moment longer than I can help.

Very truly yours,

Thos. A. Edison Constn. Dept.

By 



1883-11-22

November 22nd. 3

R. N. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 10th. inst., I have answered you elsewhere stating that I hope to be able to send you the machines for your central station sometime next week.

The 200 and 300 light machines which you require for isolated business you can have about ten days or two weeks after the machines are sent you for your central station.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1893-11-23

Menlo Park - Gen.

November 23rd.

3

N. Stilwell, Esq.

Menlo Park, N. J.

Dear Sir:-

Will you please have the doors of the office, laboratory, machine shops and other buildings, which it is not absolutely necessary to have access to, nailed up, and a fresh lock put on the doors that it is necessary to use. I should think the simplest way to do is to have the same lock put on all the doors you require to open, and have one key to open the whole of them.

However, this is a matter you can decide yourself.

While Alfred Swanson is working for us, he is entitled to have access to the laboratory, machine shop and engine room, but after he gets through his work of course he should give up the key. Perhaps the better would be for you to open the door for him every day and lock it up at night, but this is a matter on which you can suit your own convenience. What we wish to accomplish is to prevent all unauthorized people from getting into the laboratory.

Yours truly,



1873-11-23

November 23rd.

3

Messrs. Bergmann & Co.

252 Avenue B, City.

Dear Sirs:-

Will you please have a test made of the battery cell  
that we sent down to you sometime ago.

I enclose you patent. Please return the patent with  
report as to test. We want this immediately.

Yours truly,



Enclosure.

1883-11-23

Battery, St.

November 23rd. 3

A. A. Cowles, Esq.

19 Cliff Street, City.

Dear Sir:-

I am promised a test of the battery in the course of a day or so, and will send it down to you immediately we get it.

Very truly yours,

SP

1883-11-23

*Sunbury*

November 23rd. 3

Frank S. Marr, Esq. Treas.

Edison Elec. Illuminating Co.

Sunbury, Penna.

Dear Sir:-

Referring to your favor of the 18th. inst., I beg to return you herewith the plan of Sunbury indicating where you want the extension of your lines made. Will you please mark on the plan the maximum number of lights for use on this extension and their position, so that we can calculate what size the conductors should be.

Do I understand that you are wanting some of the new kind of wire. If so, I will send it to you, as I have some in stock.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-23

November 23rd. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

Since writing to you this morning your letter of the 15th. has come before us. It has been mislaid and we must apologize for the apparent neglect in not replying to you before.

The price of the new form of cable is forty two cents a pound. I have quite some of it in stock, which I ordered in order to get the first lot made. We are getting excellent results from it, and think it is the best thing you can use. If you will give us some idea of the size of the wire you want, we can then send you sufficient cable for your purpose.

Again apologizing to you for our neglect yours above referred to, we remain,

Very truly yours,

Thomas A. Edison Constrn. Dept.

By



1883-11-23

November 23rd. 3

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

When I was in Brockton I arranged with you to have a photograph made of the building. Has this been done? If not, when will it be done?

Very truly yours,

A handwritten signature, possibly reading "S. J.", is written in dark ink.

1883-11-23

November 23rd, '83

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I send you herewith duplicate blue prints of the stations at Bellefonte, Mt. Carmel, Hazleton and Tiffin, and shall be glad if you will sketch on same the disposition of the switches &c., as suggested in yours of the 22nd. For the future I will send two copies of blue prints of the central stations.

Very truly yours,

Thomas A. Edison Constr. Dept.

By





1883-11-23

November 23rd, 83

Spencer Borden, Esq.

Boston, Mass.

Dear Sir:-

Referring to your favor of the 21st. inst., we are very much surprised that you should have altered our estimate for Natick. If you have no objection we would prefer that you should leave us this privilege. We consider that the Norwich estimate is complete in itself and does not require any alteration. There is a margin of engine capacity and a margin in the dynamos, we do not think it at all necessary to put in a spare.

You must remember that we are putting for a 1,000 light plant exactly the same engine that we use for the 1,000, and we also send to the station extra parts of such machinery that it is possible will break down. We do not think that we should leave it to the local people to say what they want in the way of a plant. We consider our experience in this connection a great deal better than theirs.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-11-23

November 23rd. 3

Judge J. W. Dunn,

Tiffin, Ohio.

Dear Sir:-

We have your favor of the 19th. inst.

Our material for wiring has been shipped to-day, and our  
Mr Isaac Walker, who has charge of the inside wiring, will be in  
Tiffin in all probability Tuesday or Wednesday next to start the  
work there. We think that you will find that that will be in  
plenty of time for the starting of the station.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

November 23rd. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 21st. inst, and will take  
your advice and keep a supply of chemicals on hand.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-23

November 23rd. 3

A. Stuart, Esq. Secty.  
Cincinnati, Ohio.

Dear Sir:-

Referring to your favor of the 18th. inst., I certainly think that efforts should be made to put plants in some of the towns already canvassed, before anything is done with relation to canvassing other towns. The expense of the work is considerable and I should not care to go ahead making any more canvasses unless Major Eaton instructs me to do so.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1853-11-23

November 23rd. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

I do not at all like your Rondout-Kingston scheme.

I do not think that we have got far enough ahead to follow it out.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1883-11-23

November 23rd. 3.

C. E. Chinneck, Esq.

257 Pearl Street, City.

My Dear Chinneck:-

This will introduce to you Mr. A. S. Bovis, who wants to get as much information as possible in the course of a few days at the Central Station. Mr. Bovis is going out for us in connection with our central station construction work, and any facilities you can give him to post himself will confer a favor upon,

Very truly yours,

A handwritten signature, likely of the sender, written in dark ink. It appears to be a stylized 'S' or 'L' followed by a flourish.

1883-11-24

November 24th. 3

Major S. B. Eaton, President.

65 Fifth Avenue, City.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 2nd. inst. instructing us to make canvasses and estimates for Holyoke and New Bedford, Mass.

We hope to be able to send a canvasser to commence this work within a few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-24

November 24th.

Major S. B. Eaton, Prest.

65 Fifth Avenue, City.

Dear Sir:-

We beg to acknowledge receipt of your favor of the  
23rd. inst. instructing us to canvass the following towns in  
Pennsylvania:-

Wellsborough, Hauch Chunk, Pottsville, Pottstown, Lancaster,  
Lewisburgh, Milton, York, Union City, Wilkesbarre, Scranton.

Very truly yours,

Thomas A. Edison Constn. Dept.

By





1883-11-24

November 24th. 3

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We are in receipt of a letter from Messrs. Bergmann & Co., in which they quote the following extract from a letter received by them from you:-

"Under contract 250 temporary fixtures, shades, holders and sockets were to be furnished. Only 240 were shipped or received by us."

We have before us at the present moment the statement which was presented to our Mr Insull, when he went to Shamokin to settle our affairs there, and which he was told specified the material received on account of the contract between us, and under the heading of "temporary fixtures" you enter only 200 and give us credit for that number. In your letter to Messrs. Bergmann & Co. you now acknowledge having received 240, and ask for a credit for 10 temporary fixtures, inasmuch as the contract called for 250. We might here state that we hold the receipt of Mr W. H. Douty, the President of your Company, for 350 temporary fixtures, sockets and shades complete, but inasmuch as you have only paid for 200, notwithstanding your statement to Messrs. Bergmann & Co. that you

1883-11-24

2

Received 2240, we cannot understand why it is that you ask us for a credit for 10 more. Although we accepted your statement of the material received as being correct, it would not appear to be the case, judging from the above; in the instance we have quoted we are satisfied that it is not.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

AOY

1883-11-24

November 24th. 3

Messrs. Babcock & Wilcox,

30 Cortlandt Street, City.

Dear Sirs:-

In making shipment of the boilers you have on hand for us at the present time, will you please forward them as follows:-

Hazleton from Elizabethport, via Philadelphia & Reading, Bellefonte, via Pennsylvania R. R.

We have secured special rates over these lines.

Are you putting the names of the different Companies on these boilers, as usual? If you have not done so in the case of the boilers already shipped, will you kindly put the names of the Companies on the boiler you have on hand. For instance, the Bellefonte boiler should bear the name "Edison Electric Illuminating Company of Bellefonte", and the others should have the name of the Company in the same way, according to the town it is intended for.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-11-24

November 24th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

In relation to the 14 3 x 38 engine for Newburgh, which will be ready for shipment within a few days, will you please send it to Hazleton, Penna. instead. The Newburgh station will not be ready for some time, and we do not wish to be obliged to store more material in Newburgh than is necessary, and we can use this engine at Hazleton as soon as it is ready. Please send it via the New York & New England, Steamer "Maryland" and Lehigh Valley R. R., as we have secured special rates on this route, which we wish to take advantage of.

We have secured special rates to Bellefonte, Penna. via New York & New England and Penna. R. R., and when you are shipping to that point, please take those routes.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *S. A.*

1883-11-27

November 27th. 3

James Harris, Esq. Secty.

Sellefonte, Pa.

Dear Sir:-

I shall be glad if you will give me an order for  
say 240 lamps, so as to have lamps on hand at starting the station.  
These lamps we shall bill to you at exactly the same price as if  
they were bought from the Lamp Factory direct, namely, 50 cents,  
and the only object I have in asking for the order is so that we  
shall have the right to order lamps forward at such time I may  
find it necessary when they are required.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-27

November 27th. 3

Mr. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

We have your favor of the 23rd. November.

We have put some of the lamps with the wire in the center upon a test at 64 candles, and find that they have just as good life as the regular lamps, which proves that the platinum practically makes no difference.

Bergmann is getting along nicely with the twelve indicators, and we will send some forward to you as soon as they are completed.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-27

November 27

J. H. Andrews, Esq.

Dear Sir:-

Referring to yours of the 22nd. inst. you  
ask by conferring with Mr. Wick himself arrange to have the  
feeders brought into a central station at points suitable to your-  
self. I am taking up the question of channels &c. and am trying  
to make them a little better than they have been.

Very truly yours,

1883-11-27

November 27th. 3

W. S. Andrews, Esq.

Dear Sir:-

Referring to your favor of the 24th.

Rev., I think the object you speak of, namely, being advised of  
the progress of Mr. Rich's work, will be best done by your communi-  
cating with him.

Very truly yours,



1893-11-27

November 27th, 1893

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 22nd. inst. we have talked over with Mr. Edison what your title should be, and would suggest "Chief Electrical Engineer." How does that strike you? It is better than "Electrician". You know electricians are in no great repute with Mr. Edison as a rule.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-27

November 27th.

3

Mr. W. S. Lear.

Sunbury, Pa.

Dear Sir:-

Referring to yours of the 23rd. inst., are there no other lights on the extension you propose putting up besides the 50 mentioned at the end of extension. Shall we only estimate for 50 or calculate our copper so as to carry more lights in the future? If so, state the probable number.

Very truly yours,

1883-11-27

November 27th. 3

H. C. Rollins, Esq. Treas.

Edison Electric Illuminating Co.

Highland National Bank,

Newburgh, N. Y.

Dear Sir:-

We enclose herewith revised plan for the central station building to be erected at Newburgh, and we would impress upon you very strongly the necessity of having the work done in strict accordance with this plan. Any deviation from it, however slight, it may appear to you, may seriously interfere with our arrangements, and we will here say that we will not hold ourselves responsible for any defect in the internal arrangement of the station, should the same be caused from our plans not having been accurately carried out. We write you thus strongly on the subject, as with us it is a vital point, and trusting that you will see that our requirements are met by your contractors, we are,

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

Indian + Colonial

1893-11-28

November 28th.

3

Major Flood Page, General Manager,

Edison's Indian & Colonial Electric Co.

4 & 6 Throgmorton Avenue,

London, E. C. England.

Dear Sir:-

We have a letter from Messrs. Drexel, Morgan & Co. asking for further documents, and which we have handed to them for transmission to London.

We cabled you yesterday as follows:-

"Tube Company supplied material absolute price contract.

You should remit immediately comply our understanding! Extremely surprised your delay. Will mail details!"

The Tube Company's material was bought by us on an absolute contract, and they are not in the habit of supplying us with ~~an absolute price~~ cost, and it has been our rule to accept their bills right along. Where an absolute figure had been given on a certain amount of work, they accommodated us by giving us a detailed bill, which, as above stated, has been sent forward.

We cannot consider this, however, a sufficient justifi-

Received  
1893-11-28  
1893-11-28  
1893-11-28

1893-11-28

2

ation for your holding your remittance. We bought this material for you, paid for it and shipped it without any profit whatever to ourselves, and solely as a courtesy to you, and hence our request for an immediate remittance.

My Private Secretary, Mr Insull, will be in London about the 20th. December, and will call upon you, and any information you may desire as to our business he will be able to give you.

Very truly yours,

1883-11-28

November 24th. 3

W. H. Doolley Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 24th. inst., I cannot tell whether the small pair of dynamos will be ready by the time you mention or not. Even if they were I think that we should run the large engine. In fact we should run both of them, <sup>alternately</sup> as we should want to get the whole of the plant in good running order before the period is up for us to hand it over to your Company. I cannot see where the great waste of power comes in in running the large engine, and even if such were the case, I would remind you that ~~this~~ is part of our contract to run the station for thirty days, and it can therefore be hardly a matter of interest to your Company whether we have to run the large or small engines during that period. *as the coal consumed will be at our expense*

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

Referring to your favor of the 24th. inst., we beg to state that the books and forms which we propose furnishing have been delayed in consequence of the absence from the city of Col. Coddard, with whom we are very anxious to confer before settling on the final forms. He has promised to go into it at the first opportunity, but as he is going to do it as a favor to us, we of course cannot press him to do so at any time that it might inconvenience him.

I think that the best thing that you can do is to go ahead and use your judgement in the matter, and when we get our forms out we will give you the option of taking them or not.

With relation to Mr. Sprague, I find that I shall require him in New York. When the small dynamos are ready we can send some one, probably from Fall River, to put them up for you.

I cannot give you at the moment the figures as to the proposed exchange, but will do so as early as possible.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1 PF3-11-28

November 28th. 3

G. W. Wilbur, Esq.

Hotel Weinmeister,  
Atlanta, Ga.

Dear Sir:-

We have your favor of the 25th. inst., and are glad to hear of the progress you are making.

I have sent a check to Mr. Magnus V. Miles as requested, and have written to Lyons that if he cares to come on here, I can get him at work. I will advise you later as to where you are to go next.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 



1883-11-25

November 28th. 3

Theodore N. Vail, Esq., General Manager,  
American Bell Telephone Co.  
95 Milk Street,  
Boston, Mass.

Dear Sir:-

I shall be glad if you will send me a specimen of the Inertia Carbon Transmitter you now issue, having the new form of lettering with "Edison Carbon Telephone" across the box. Be kind enough to attach to the transmitter a certificate stating that all your transmitters are now issued in that form.

I wish to use this in London in negotiating with the United Telephone Company, who I am anxious should follow the same course as that adopted by your Company. If you can let me have this before December 8th., I shall feel obliged, as I wish to send it to London by the hand of my Private Secretary, who sails immediately after that date.

Very truly yours,

*J. J.*

1883  
November 20th. 3

"Cashier,"

Germania Bank,

215 Bowery, City.

Dear Sir:-

I enclose you herewith the information requested as to the Edison Electric Light Co., The Edison Co. for Isolated Lighting and the Edison Electric Illuminating Co. of New York.

The Light Co. has a controlling interest in the Isolated Co., owning <sup>51</sup>100 of the Isolated Co's stock. The Light Co. has also a 25 per cent interest in the Illuminating Co.

The paper that we have submitted to you for discount, and which you have kindly obliged us by so doing, was that of the Edison Co. for Isolated Lighting. This Company's business is to install electric light plants in mills and factories, and it obtains its license to do so from the Edison Electric Light Co., which controls it.

The Edison Electric Illuminating Co. of New York supplies light on a meter in the district bordered by Wall, Nassau, Spruce Streets and the East River.

Mr. Edison's relations to these companies is that of manufacturer. He supplies them with dynamo electric machines, lamps

1183-10-28

2

and electrical sundries. Our main customer is the Edison Co. for Isolated Lighting, who take a large amount of material from us right along. The Edison Electric Illuminating Co. has its plant erected, and consequently buys very little from us at the present time. The Edison Electric Light Co. is simply a patent owning organization, who do nothing beyond selling licenses to use their patents, and they also defray the cost of Mr. Edison's experiments in connection with any improvements or inventions he may get up on his present system of electric lighting.

Besides the above Mr. Edison acts as a general contractor for the installation of electric light central station plants.

Our modus operandi is as follows:-

A company formed in some town gets its license from the Edison Electric Light Co., the local company requires a plant erected, in order to enter into the business of selling light, or in other words, to compete with the local gas company for business, and Mr. Edison himself undertakes the contract to erect a plant for such a local company at a given contract price. He does this work by permission of the Edison Electric Light Co., who are the sole owners of the patents.

Any further information that I can give you I shall be glad to or if you care to make an appointment, I will come down to

1883-11-28

3

see you and explain matters further to you, as it is our wish that you should be fully posted in relation to the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-11-28

November 28th. 3

Messrs. Harris & Robinson, Es

Hartford, Conn.

Dear Sirs:-

Referring to your favor of the 20th. inst., I do not  
at all believe in the scheme you propose. My experience is that  
if we depend upon other peoples boilers and engines, our lights  
are not satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

James Harris, Esq. Secty.

Pallefonte, Penna.

Dear Sir:-

We beg to confirm the addition of \$200. agreed upon by yourself and our Mr. Rich to be paid us in consideration of increasing the size of the building. Said payment to be in addition to the amount agreed upon in our contract with you for the erection of your central station plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Attorney.

1583-11-28

November 28th. 3

H. Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your two favors of the 24th. inst., which do not explain to us the reason for your wanting to draw \$100. We asked pointedly for an explanation from you, as we wanted to know whether we were in error in your accounts. Will you please let us know.

We must confess we have your new form the use for which we do not understand. If you have any new forms or anything else new, will you please let your ideas flow in the direction of this office and not to Mr. Jenks or any other manager of local companies. We wish to have the privilege of deciding what is the best form to use, and we are very glad to have any suggestions, but we wish to pass upon them before they are communicated outside.

I send you by this mail a book of "Questions & Answers", which may give you a great deal of information. This book is for your own personal use and is not to be shown to anybody.

I shall be glad to have from you such a report as you gave us from Brockton as to the number of lights burning &c. Please send your answers to the questions here.

Very truly yours,

Wm I

1883-11-28

November 28th. 3

C. P. Lyons, Esq.

Center Street,

Dorchester Station,

Boston, Mass.

Dear Sir:-

Mr. C. W. Wilbur informs me that you would like to have a position as canvasser with us. If you care to come on immediately we can send you out to work.

Very truly yours,

Thomas A. Edison Conatn. Det.

By 



1883-11-28

November 28th. 3

Messrs. Marlio & Hull,

P. O. Lock Box 97,

Detroit, Mich.

Dear Sirs:-

We have your favor of the 27th. inst., and in reply, beg to say that we will see that Battle Creek is canvassed after Grand Haven, and will leave Niles out as suggested.

We have been compelled to withdraw Mr. Cooke from your territory temporarily, but he will return there inside of two weeks.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-28

November 28th, 1883.

W. W. Doolley Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have your favor of the 26th. inst., and very much regret that the second 50 light machine has not been shipped, but we had trouble with the castings, which when delivered to us proved defective and we had to have a new set made. Our Supt. promises now to ship the machine by Saturday or Monday at the latest. The various articles you refer to as missing shall be supplied.

Very truly yours,

The Edison Machine Works,

By



1883-11-28

November 28th.

3

A. A. Cowles, Esq.

10 Cliff Street, City.

My Dear Sir:-

We have had the battery which you sent for test duly tested, and give you below our tester's report:-

Internal resistance, one ohm; strength, 1.18 volts; current, 1.18 amperes. When put on short circuit it runs down very quickly.

Our tester reports that he does not think at all well of the battery.

Very truly yours,

Zak  
J

1883-11-28

November 28th. 1883.

Gustav Soldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

I am getting into very serious trouble indeed at the long delay in connection with the shipment of the 350 light machine for Fall River. I really think that the matter should have been hurried a little more than it has been, and I must insist that this machine ~~xxxx~~ be shipped to Fall River immediately. Unless we are a little more prompt on our shipments we shall get a very bad reputation. It must now be six or seven weeks since I asked that the machine be got ready.

Please ~~know~~ know absolutely by bearer when the machine will leave the shop, as I must telegraph to Fall River this morning.

I may say that the Fall River Company are prevented from lighting a mill and getting a large payment on a big contract in consequence of our delay, and they naturally feel the opposite of satisfied.

Very truly yours,

The Edison Machine Works,

By



1853-11-28

November 28th,

3

U. H. Painter, Esq.

Box 80,

Washington, D. C.

Friend Painter:-

Did you ever get a letter from me asking for a map  
of the United States: Our office is starving for one.

Cannot you manage to get one for us?

Very truly yours,



1893-11-28

November 26th. 3

N. Stilwell, Esq.

Monlo Park, N. J.

Dear Sir:-

Referring to your favor of the 20th, inst., I wired you to let Mr. Claudius have a key of the laboratory. So long as he is at work there as a member of Mr. Clarke's staff, he is entitled to a key.

Very truly yours,

A handwritten signature, possibly reading "S. L.", is written in dark ink. It is positioned below the closing "Very truly yours," and is partially crossed out by a diagonal line that extends from the bottom right towards the center of the page.

1883-11-28

November 26th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Mr Edison insists that you telegraphed him instructing us to canvass Carlisle, Penna. I have no record of any such telegram in the office, nor do I recollect ever having received one. I have a telegram from you telling us to canvass Wellsborough, and we hope to send a canvasser there Monday or Tuesday at the latest. Will you please let me know at your early convenience whether you telegraphed Mr Edison desiring a canvas made of Carlisle, and if not whether you telegraphed any one else, as he may have heard of it through other channels.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-28

November 28th. 3

William Schwanck, Esq. Frost.

Mt. Carmel, Penna.

Dear Sir:-

Referring to your favor of the 26th. inst., I think that it would be very poor policy on the part of your Company to undertake to do any wiring itself. Our experience is that in such cases the local company has a very great deal of trouble with the consumers in collecting their bills, and we find it the best policy to have an outside party do the wiring of houses in the same method in which this is done at Shamokin. I am trying to arrange with Mr. Floyd to do your wiring at Mt. Carmel. I think this would be the most economical thing for you to do. Floyd is the man that does the work at Shamokin. He is within easy reach of Mt. Carmel, and in connection with the Shamokin work should be able to handle the work more economically than a local man at Mt. Carmel could, if you have no objection to the work being done by Floyd, ~~and~~ my only object in suggesting him is as stated above.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 



1893-11-28

November 28th,

3

W. Stillwell, Esq. .

Menlo Park, N. J.

Dear Sir:-

Mr. Claudius reports that the clock has been removed from the laboratory and taken down to the house at Menlo Park. This clock is the property of the Edison Electric Light Co., and Mr. Claudius is responsible for the same. The clock should be sent back immediately.

Yours truly,

*J. E. Smith*

1883 11-28

November 28th. 3

H. O. Stratton, Esq.

85 Oliver Street,

Boston, Mass.

Dear Sir:-

Referring to your favor of the 27th. inst., I do not know where you can buy the duplicating ink you refer to, but I have some in stock that I am not at present using, and shall be glad to let you have same at cost if you will let me know how much you want.

Very truly yours,

*Sam*  
*I*

1883-11-28

November 28th, 8.

P. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

Please let us know at your convenience how your friend, who is at the Brockton station with you, is posted on our work. Is he capable of taking care of a station? Also has he a sufficient mechanical knowledge to allow of his fitting up the interior of a station? Also please let us know his name and how we can reach him, as we want to see about putting him on our electrical staff. Also what was his experience before he went to Brockton with you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

Will you please arrange to return to New York at the earliest possible moment. You should leave things so that Mr. Jenks can permanently get on without any assistance from us. It is quite time we left them to run things by themselves.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



18F311-28

November 24th,

3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

Referring to your favor of the 23rd. inst., will you please let me have a minute account of your various troubles with the automatic regulator, and I will endeavor to give you a remedy for same.

Very truly yours,

S. A. J.

I have Johnson working on this

1883-11-25

November 24th.

3

Charles Batchelor, Esq.

Laris, Franco.

My Dear Batchelor:-

Will you please let me have an explanation of the enclosed, which appears in the Defect Book for November 24th.

"Extract of letter from Mr. Hennis, at Milan to Mr. Batchelor". Oct. 22, 1883 - "The Armington & Sims engines work badly. We seldom can run a night without changing them off once or twice during the evening. It seems impossible to keep them to the work, and up to now it takes just twice as much oil that a "Porter" does.

We have had another accident with a Porter engine by breaking the crank pin. This makes two pines that we have broken and I find that both pines were defective, and that cracks were in the steel when put up."

Very truly yours,

*Wals*  
*L*

1883-11-28

November 28th, 1883.

George H. Bliss, Esq. General Supt.

Chicago, Ills..

Dear Sir:-

We have your various letters making complaints about defective armatures.

In "I" armature No. 118, A we found a piece of a knife blade sticking between two commutator bars. This certainly was not done in our shop, as it would have been apparent before the armature left the shop, as the armature was tested before we sent it out.

"F" No. 105, A was shipped at a time when we were changing Superintendents, and this may have caused the trouble, as we cannot place on anybody the responsibility of shipping the armature referred to.

Very truly yours,

The Edison Machine Works,

By



1883-11-28

November 28th. 3

C. W. Cooke, Esq.

Post Office,

Williamsport, Penna.

Dear Sir:-

When you get through at Williamsport you are to go to  
Battle Creek, Mich., after that you will probably have to canvass  
Hillsdale, as Messrs. Markle & Hall have decided to drop out  
Hilon, but they will however advise you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By





1883-11-28

November 28th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

We desire to put another pulley on the  $1\frac{1}{2} \times 10$  engine  
now at ~~Providence~~ <sup>Providence</sup> so as to enable us to run two machines of one  
half the capacity of the present machine now attached to the engine  
referred to.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



11873 11-29

November 28

G. H. Cook, Esq.

Dear Sir:-

I send you by this mail a map of Williamsport from which you will gather where we propose running our mains in that city. The canvass was made according to the old rules of the Edison Electric Light Company, and is, in our opinion very defective. We want you to make an entirely new canvass of Williamsport and to take more territory extending beyond Academy Street. You must of course be very careful to take in the whole outside where we now propose to run our mains and as much more as possible. This work should be done by you as promptly as possible, and each day you should send forward the result of your previous night's work as we are to plot the canvass as quickly as possible and can do this to better advantage if we have daily reports from you. It is also very important that you should conduct your work without letting the local people know the object of your visit as we propose closing the contract on the old canvass and desire this new canvass made for our own information. The importance of getting through this work rapidly you will recognize when I tell you that we expect to close the Williamsport contract on Monday next and start our work there, whereas we will

1883-11-29

be unable to order our copper until we have completed the canvass  
that you are about making and shall have made a new determination  
on the basis of same.

Very truly yours

Thomas A. Edison, Construction Department,

NY

1813-11-30

November 30th. 3

E. H. Johnson, Esq.

202 Avenue E, City.

My Dear Johnson:-

I wish you would look into the trouble with the automatic regulator, with relation to which you will find several items from Chicago in Defect Book, 24th, November. If you will give your immediate attention to this matter you will oblige,

Very truly yours,

A handwritten signature in dark ink, appearing to be 'S. L.' or similar, written in a cursive style.

El. 24.-  
Italy

1873-11-30

November 30th.

Comitato per le applicazioni Dell' elettricità sistema Edison in  
Italia

Milano, Italy.

Gentlemen:-

Referring to your favor of October 4th., we beg to  
enclose you copy of a letter which we have just received from  
Messrs Bergmann & Co. The statements contained therein are  
perfectly correct and your request for a reduction in the price  
of not less than 50 per cent is very unreasonable. If sockets  
were sent you from Bergmann & Co. such as you send a sample of  
it was an error which could be rectified by allowing you, as Berg-  
mann & Co. suggest, the difference between the price of the two  
sockets, namely, 10 cents. Those sent you were not roughly made  
but simply a socket which we use for factory work. We cannot un-  
derstand how there can be so much ~~trouble with~~ <sup>trouble with</sup> them inasmuch as  
we are using the same socket here right along. The information  
you ask regarding other matters has been sent forward to you and  
the various material requisitioned for by you has all been ordered.  
My private secretary, Mr. Insull, is going to Europe early in Dec-

2nd

1893-11-30

November 30th, 3

Messrs. Markle & Hall,

P. O. Box 97,

Detroit, Mich.

Dear Sirs:-

Your favor of the 28th, inst. was received this morning. We will send Mr. Cooke or another canvasser back into your territory within the next few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-1430

November 26th.

4

John P. Rogers, Esq.

Boston, Mass.

Dear Sir:-

Referring to your favor of the 26th. inst., if you will give me the name of a stationer in Boston who would carry a stock of duplicating ink, I would arrange with him to supply it.

Very truly yours,

*Sab*  
*L*



1893-11-30

November 30th.

A. Stuart, Esq.

Dear Sir:-

Referring to your favor of the 24th, ~~we~~  
have only just got your map of ~~KKKKKKKK~~ Chillicothe finished.  
I now send you same by this mail under separate cover and shall  
be glad if you will get me central station lots within the area  
marked. I shall also be glad if you will have the enclosed spe-  
cial report filled up and returned at the earliest possible mom-  
ent. I do not think that this town would stand more than an  
800 light plant. If you will return the map with central station  
lots indicated and also the special report, I will push through  
an estimate in the shortest possible time.

Very truly yours,

Thomas A. Nelson, Construction Department.

97



Nov 30 1111

November 30th.

G. J. Hammer, Esq.

Leipziger Strasse 93

Berlin, Germany.

Dear Sir:-

Your favor without date came to hand yesterday. I will answer it at length within a day or so. My Secretary, Mr. Insull, will be in London the latter end of December. He hopes to get to Berlin and will try to do some business with your company. Will you please advise him of your movements. His address in London will be

S. Insull, Jr.

21 Burton Crescent,

London, W. C.

England.

He will probably arrive there about the 20th. of December.

Very truly yours,

*J. G. S.*

1853-11-30

November 30

Messrs Hermann & Co.

Gentlemen:-

We have a telegram from Mr. Walker at Tiffin in which he says that you have quoted 15 per cent to a Church Committee at Tiffin as the discount on fixtures whereas Mr. Shaw told the Committee that your discount was 12 1/2 per cent. Mr. Walker asks us which is correct and I have wired him that the discount quoted by you is correct. Is it not possible for you to allow more than 15 per cent on a good order for fixtures?

Very truly yours,

Thomas A. Faison, Construction Department,

by



1883-11-30

November 30th.

V. R. Upton, Esq.

Dear Sir:-

I beg to enclose you letter from Compagnie Continentale Edison. Mr. Edison has requested me to take this matter in hand and whilst in Paris to open a negotiation with the Compagnie Continentale on the following basis:

We to have the right to sell lamps to any of their licensees at such prices as we may ourselves desire to quote to them but to pay the Compagnie Continentale a royalty of one cent a lamp on all lamps so sold. The Compagnie Continentale to undertake not to sell lamps outside of their territory. This applies particularly to England. Will you please let me have your views on this subject in writing, as it is an important matter and I wish to be in perfect accord with you in anything I may do in Paris.

Very truly yours,



1883-11-30

Nov. 30th.

A. Stuart, Esq. Secy.

Dear Sir:-

Referring to your favor of the 21st. inst. we found on Mr. Inghill's return to New York that we had already made 11 determinations in order to get the contract for Tiffin so we thought we could give Tiffin a little rest, and that is the reason you have not had any further determination. I return you herewith Mr. Dunn's letter with some personal notes of Mr. Edison thereon which will give you the data on which to reply to that gentleman. With relation to lighting the streets of Cynthania this would be dealt with in precisely the same manner as lighting the houses. If our mains ran through the streets we would just make a connection to a fixture on a pole, but inasmuch as our mains as a rule run through the alleys we should be compelled to put up special pole lines which would really represent so much inside wiring. If street lights are required it should be so indicated on the Cynthania map when it is returned to us so that we can allow for the main carrying them in making our determination. We would not include in our estimate the running of pole lines <sup>extra for street lighting.</sup> unless you so desire. We could however make a supplementary estimate to cover this point. It certainly would

1883-11-30

2

make considerable difference in the estimate but how much I cannot tell until we get the above data from you. Our method is to calculate our mains to carry a certain amount of current to supply lights in the residences. If they are to supply lights in the streets as well they must carry so much more current. Where our mains run through the main streets we would attach our lamps to the same as above stated. Where they do not we should have to run special poles.

Very truly yours,

Thomas A. Edison, Construction Department.

by



1883-11-30

November 30

A. Stuart, Esq.

Dear Sir:-

Referring to your favor of the 26th. inst. your statement which you send us does not agree with that furnished by Mr. Dyor. Have written to New Orleans to him asking him to check your statement, and if he has made a mistake in the statement rendered to us by <sup>you</sup> ~~him~~ we will immediately honor your check for \$100.

Very truly yours,

Thomas A. Edison, Construction Department.

by



1883-11-30

November 30th.

3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Messrs. Phelps, Dodge & Co. are very anxious to have about fifty lights installed in their office.

Will you please investigate their lamp hours and advise me as to the matter, as I should like to oblige them in compliance with the request of my friend Mr. Cowles, of the Ansonia Brass & Copper Co. Probably you could give them a less number of lights than they ask for, which lights would yield a good average lamp hours.

Very truly yours,

*Jac*



1883-12-01

December 1st, 1883.

Messrs. Macpherson, Willard & Co.

Bordentown, N. J.

Dear Sirs:-

I wired you yesterday that your forgings were made of poor iron in consequence of a complaint received from Mr Soldan, our superintendent. We left the Bridgeport Forge people and ordered our material from you mainly on account of the Bridgeport iron being somewhat poor. As the prices from each of you are practically the same, I would suggest that you see Mr Soldan the next time you are in town and then come up and see me about the matter.

I am fully aware that the orders you have in hand were only received on the 23rd. November, but if you can hurry them you will greatly favor us.

Very truly yours,

The Edison Machine Works,

By 

1883-12-1  
Middletown

December 1st. 3

H. N. Hoffmann, Esq. Frost.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have the pleasure to acknowledge receipt of your favor of the 28th; also, enclosing contract for the erection of a central station plant at Middletown, Ohio for 500 lights, contract amounting to \$18,900.31

We return you herewith the contract, which you will notice is signed "The Edison Electric Illuminating Company of

". The name Middletown should be filled in and the seal of the Company attached.

We also send you herewith a duplicate copy of the contract duly executed by us.

Under same cover we received your draft on the United States Bank of New York for \$2,100. and draft on Francis R. Upton for \$1,342.33 We will send you a receipt for these remittances as soon as Mr. Upton accepts his draft.

We would be glad to receive a list of the stockholders of the Middletown Company, so as to give us an opportunity of inquiring into its stability and financial standing. This will be

1883-12-01

Construction, Ohio.  
Ohio Edison Electric Installation Co.  
fact. per contract.

1883-12-01

December 1st.

2

unnecessary, however, if you will give us an undertaking that your Installation Company guarantees the contract with the Middletown Company.

Our understanding with Mr. Stuart was that these contracts were to be made with the Installation company itself and not with the local companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*SL*

Enclosure.

*SL*

1883-12-03

December 3rd. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I enclose you herewith three notes dated the 12th. November, one for \$4,938.10 due March 15th., another for \$4,983.30 due April 15th. and another for \$3,007.73 due May 15th. in settlement of the open account with you as arranged.

Will you please acknowledge receipt and oblige,

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-03

December 3rd.

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We send you by express half dozen copies of the  
Engine and Boiler questions.

Any engineers applying for a position should answer  
these questions, and you should see that they do this while you  
are present. Do not allow them to take the questions home, as  
we do not want them to have any outside assistance in answering  
our questions.

Very truly yours,

Thomas A. Edison. Consb. Dept.

By



1883-12-03

December 3rd.

8

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have decided that hereafter we will pick the resistance lamps used in the test banks. The volts may be low, but as you propose to have the banks separate from the line, just to afford a load for testing, this will not matter. We can tune the candle power down with a field resistance. Have you any objections to this course?

Very truly yours,

Thomas A. Edison Const. Dept.

By



1883-12-03

December 3rd. - 3

H. H. Hoffmann, Esq. Pres.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

Again referring to your favor of November 24th., we  
beg to acknowledge receipt of \$3,422.33, being twentyfive per cent  
of the contract between the Edison Electric Illuminating Company of  
Middletown and myself and dated, said contract being for the  
installation of a 500 ~~Watts~~ Incandescent Light plant at Middletown  
Ohio.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



December 3rd,

3

George M. Hopkins, Esq.

117 Temple Court,

City.

My dear Sir:-

I have your favor of the 1st. inst., and in reply beg to ~~assure~~ state that the trouble is I have an arrangement with Mr. R. N. Dyer, who has his office here, which arrangement I am bound to hold to. I will see what I can do to bring you into some of our law cases, and it would not be a bad idea for you to remind me of the matter from time to time.

Very truly yours,

*W. H. L.*



1883-12-03

December 3rd,

3

J. C. Reiff, Esq.

care Voorishoffer & Co.

31 Exchange Place, City.

My Dear Reiff:-

Referring to your favor with relation to the Sey-  
fort suit, I think the best way is to postpone the matter just as  
long as possible, in fact carry out the same policy that has been  
carried out right along, meantime see what kind of a settlement  
can be made.

Very truly yours,

*Geo. I*

1883-12-03

December 8rd,

3

J. C. Roiff, Esq.

cara Weorishoffer & Co.

54 Exchange Place, City.

My Dear Roiff:-

I have your favor of the 1st.

The trouble with you is when you undertake to do a thing you never follow it up or come to see me to find out what progress is being made. I should think that instead of waiting patiently <sup>to hear</sup> from me that you would come up here and see me. The next time you are passing you had better look me up and we will talk the matter over. I have no idea of breaking any promises to anybody.

Very truly yours,

Zak

1873-12-03

December 3rd.

Messrs. Armington & Sims Co.

Providence, R. I.

Dear Sir:-

We have your account of November 30th., handed to us by Mr. Moore,

We have no bills for the items of the 27th. and 28th. October of \$4. each. With relation to the item of November 3rd., \$0.47, for man sent to Brockton, we hardly think that this expense is chargeable to us, and have therefore abstained from crediting your account until we hear further from you. As to the charge for engines sent to Shamokin \$775., as we wrote you, we do not think that you should charge us with this engine until it is clearly established that the troubles at Shamokin were our fault or the fault of our men. It so happens that the engine has never yet reached Shamokin.

Deducting these various amounts there remains a balance of \$7,502.00, for which we enclose two notes dated respectively the 12th. and 25th. November for \$4,761.48 each. These notes fall due on the 15th. and 31st. February. Trusting that these arrangements will prove satisfactory, and requesting you to return the enclosed vouchers signed, we beg to remain,

Very truly yours,



1883-12-03

December 3rd. 3

Isaac Walker, Esq.

care Judge J. F. Bunn,  
Tiffin, Ohio.

Dear Sir:-

We received the enclosed letter from Mr. Bunn this morning. Please return it after perusal.

You will, as he suggests, use the paragon cable wherever possible, providing the customers are willing that it be used.

We have a note referred to us by Messrs. Bergmann & Co. in relation to more material asked for by you. All your communications as to business matters should be addressed to this office, and anything you require we will send on to you, but you must not send your orders to Messrs. Bergmann & Co., as they simply refer your communications to us and we have to send them a requisition instructing them to fill your orders.

We should also like to receive from you a report as to what you are doing at least two or three times a week.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-04

December 4th.

3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

The two spare machines which you have asked for will be shipped from here on Wednesday. You will require a 48" driving pulley on each side of your <sup>1</sup>U 2 x 10 engine and it should be set to run at 325 revolutions. Do you propose to have the necessary alterations to the <sup>1</sup>U 2 x 10 engine made yourself or do you want us to take charge of it? Please let us know at the earliest possible moment, as we wish to have the machines running for you as quickly as possible, also give us an order to cover the necessary regu-  
lators, switches and electrical work.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-04

December 4th. 1883.

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We enclose you herewith blue prints of sketches which the Construction Department set up for use in their central station work. The 200 light machine runs at 1,300 revolutions and the 300 light machine runs at 1,200. We also enclose you statement of the speed &c. of each machine we now make.

We will have the brushes you ask for sent forward in the course of a few days.

Very truly yours,

The Edison Machine Works,

By 

Enclosure.

1883-12.04

December 4th.

3

Messrs. Barlow & Hall,

P. O. Box 27,

Detroit, Mich.

Dear Sirs:-

Yours of the 1st. inst. to hand.

Our Mr. Cooke leaves Williamsport for Battle Creek either  
to-day or to-morrow morning. Trusting that this will <sup>prove</sup> sat-  
isfactory to you, we are,

Very truly yours,

Thomas A. Edison Condn. Dept.

By



1883-12-04

December 4th. 3

Frank Maion, Esq.

care Worcester Casket Co.

Worcester, Mass.

Dear Sir:-

We have your favor of the 30th, ult., and in reply would suggest that you go to Fall River, when you have time within the next week or so, and call on our Mr. Andrews and have a talk with him. On receipt of his report in relation to the matter we shall then be able to inform you whether we can offer you a position. If we do so, your remuneration to start with would be very low, as it would be sometime before your services would be of any great value to us.

Mr. Andrews' address is W. S. Andrews, care Edison Electric Illuminating Co., Fall River, Mass.

Very truly yours,

Thomas A. Edison Constn, Dept.

By 



1883-12 04

December 4th.

3

U. N. Painter, Esq.

Box 88,

Washington, D. C.

Friend Painter:-

The maj of the United States came to hand yesterday. I am very much obliged to you for same.

I cannot find that letter which you state was written to you. Johnson says you only thought it was written to you, and he informed me that when he hunted for it he could not find it either.

Very truly yours,

1883-12-04

December 4th.

3

Messrs. J. P. Rogers, & Co.

63 India Square,

Boston, Mass.

Dear Sirs:-

I have your favor of December 1st., and in reply beg  
to state that I will communicate with Messrs. Cotton & Guild in  
relation to the ink.

Very truly yours,

Zak  
J

1883-12-04

December 4th. 3

W. C. Smith, Esq.

Foreman of Construction,

Rapid Telegraph Co.,

161 Broadway, City.

Dear Sir:-

I shall be glad to see you if you are inclined to take a position with me in connection with the erection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-04

December 4th.

3

William Schwenk, Esq. Prost.  
Mt. Carmel, Penna.

Dear Sir:-

We have your favor of December 1st., and regret very much that "all the parties here are disgusted with the management". We are doing all we can to push the work, and the material, the supply of which we absolutely control, has gone forward. Certain things we have to get from outside parties are being pushed as quickly as possible.

You can purchase all necessary material for wirework from Messrs. Hergmann & Co., 203 Avenue B, New York. I think, however, the best way would be for you to limit an amount you desire sent and order it through me, and I would be careful to see you got exactly what you wanted and at the proper prices. I am of the opinion that you would be far better served if you got Floyd of Shimukin to do your wiring, in which case he would supply his own material, as he carries a stock of it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1783-12-04

December 4th. 83

J. S. Andrews, Esq.

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We enclose you herewith letter from Frank Maies of  
Worcester, Mass. We have informed this gentleman that he had  
better call on you at Fall River and have a talk with you in  
relation to what he wants. If he does so, will you please let us  
hear from you as to the matter, and if he is likely to turn out a  
good man we might start him as the rest of the novices in our  
business.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-04.

December 4th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

The spare machines will be shipped to Lawrence by Wednesday at the latest. When you go there to put them up will you please keep an exact time it takes on the machines used, as these are extra and outside of our contract and we have to charge them for it. Are the foundations all ready and has the Lawrence Company had their 6" x 10 engine altered, so as to carry a driving pulley on each end of the shaft. I have written to Mr. Ford about this matter by to-night's mail.

Very truly yours,

Thomas A. Edison Constn. Dept.

by



1883-12-04

December 4th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Please let us know as early as possible when your station will be ready to start up at Fall River, as I think Mr Edison will go up to start it, and I accordingly would like to know, so that he can be prepared at the time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1783-12-04.

December 4th. 3

The Arrington & Sims Co.

Providence, R. I.

Dear Sirs:-

You will notice that we have sent you in a number of orders for single engines, that is we propose running them in small stations without a spare. I spoke to your Mr. Sims sometime ago as to what extra parts should be sent with those engines, so as to enable our men to remedy a breakdown quickly. Will you please let me have by return a list of the extra parts that you think should go with the 9 2 x 12<sup>1</sup> and the 14 2 x 13<sup>1</sup> engines, where they are put in a station by themselves. Kindly attend to this matter immediately, as I wish to settle on our policy in this connection before I sail for Europe.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 



1883-12-04

December 4th.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We beg to inform you that we have received a telegram from Mr. Rich stating that the Tiffin station will be ready for wiring in two weeks.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th. 11

W. S. Andrews, Esq.

P. O. Box 533,

Fall River, Mass.

Dear Sir:-

We want to get up a small book of examples of wiring in placing lights and safety plugs. The examples should be made to scale approximately. Will you please collect them as you have leisure and give sizes of wire used. I send you two rough copies of book giving sizes of wire, one for services on three wire system and one for services and inside wiring on two wire system, both have one per cent drop. I will send you to-morrow one for two ~~wire~~ wire system with two per cent drop. You will notice that the lamps are all supposed to be placed at the ~~extremities~~ <sup>ends</sup>. Of course this is so with services but not so with inside wiring, but I think it best to have a surplus of wire services. I think you should not have but one per cent drop, but the inside wiring can stand two per cent, especially as it will not work bad, owing to the disposition of the lamps.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th.

Messrs. Eimer & Amend,

303 Third Avenue, City.

Dear Sirs:-

We have complaints that the meter bottles which you sent out for us have iron in them in the form of iron scales. This renders them absolutely useless for our purpose, as the acid solution which we put in the bottle of <sup>necessity</sup> ~~acid~~ takes up the iron. Will you please rectify this in future.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-04

December 4th. 3

James Harris, Esq. Secty.

Bellefonte, Penna.

Dear Sir:-

I give you below prices of the various lamps made:-

10 candle lamps.....\$ .50

10 candle lamps.....<sup>25</sup>.40

32 candle lamps......60

50 candle lamps..... 1.00

100 candle lamps..... 1.50, Box, and packing added.

The 10 candle lamp, although apparently higher priced than the 10 candle lamp, as a matter of fact is more durable and is more ~~economical~~ <sup>economical</sup> and better suited to the consumer and takes the place of a gas jet. If the 10 candle lamp is used extensively the bills of your consumers will be 10 higher than their gas bills, estimating that you sell it at the same price as gas. In fact we look upon the 10 candle lamp as the

Very truly yours,

Thomas A. Edison Constn. Dept.

By

1873-12-04

December 4th, 3

A. J. Brown, Esq.

Foreman of Construction,

Western Union Telegraph Co.

103 Broadway, City.

Dear Sir:-

I shall be glad to see you if you are inclined to take  
a position with me in connection with the erection of electric  
light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-04

December 4th.

Messrs. Bergmann & Co.

322 Avenue N, City.

Dear Sirs:-

I notice in the supplement of your catalogue that you mention the various articles got up for the Construction Department. As the greater number of these things are made for use in connection with our work and the experience which results from their being made costs this Department quite a good deal of money, I think that you should arrange your prices so ~~xxx~~ as to let us have the various articles we order at better rates than you sell to other customers, say an extra discount of fifteen per cent.

Will you please let me have your views on the subject.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1893-12-04

December 4th. 3

Messrs. Bergmann & Co.

203 Avenue H, City.

Dear Sirs:-

We have very serious complaints from Fall River of the non-arrival there of the material ordered from you for fixing up the central station. We have four men there who are unable to work, owing to your not shipping our goods promptly. This delay in a station of any size causes us a loss of from \$20. to \$25. a day, besides keeping us out of our money for our work considerably longer than would be the case if you would ship promptly. It seems to me very strange that you cannot get out a few switches in less time than we can have boilers shipped, steam piping made, engines built and dynamos constructed.

Cannot you give me an absolute date at which you can ship our orders for Fall River, Tiffin, Mt. Carmel, Hazelton, Bellefonte, ~~Hazleton and Tiffin~~. The goods should go forward in the order mentioned. We impressed upon you when giving the orders for these stations that it was necessary that the safety catches for pole line work should be shipped immediately. <sup>Especially Tiffin</sup> It is now twelve or thirteen days since you received the orders and we have no notification of shipment, and we have three men who are waiting to use these safety catches. I am very much afraid that we shall

1883-12-04

2

have nearly \$250,000. worth of work to carry upwards of thirty days longer than we ought to, unless you ~~were to~~ ship to us more promptly. If you are pressed why cannot you arrange to put some one else back, as ours is certainly the most important, as the amounts involved in our contracts are so much higher than the Isolated Company or any of the Illuminating Companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 



1883-12-04

December 4th. 3

Messrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

We have your extremely pleasant letter of the 1st.  
December.

If you do not know who Mr. Shaw is, considering the time  
he has been in our business, I think it about time you do.  
He is the State Manager for the Edison Electric Light in Penna.,  
and has some connection with the Ohio Installation Company.  
It is not our business to communicate with Mr. Shaw and tell him  
what he should do or should not do. If you want any information  
conveyed to him about discounts we would suggest that you do it  
yourselves.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1873-12-04

December 4th.

. 3

Messrs. Cotton & Guild,

24 Milk Street,

Boston, Mass.

Dear Sirs:-

We have frequent inquiries from Boston as to the duplicating ink of mine which was sold extensively some few years back, but of which none has been made for some time past.

Messrs. J. P. Rogers & Co. have suggested to me that I *arrange* ~~arrange~~ with you to carry a stock. If you are willing to do so, I will have some made up in my laboratory, and will sell it to you at a reasonable price. I am anxious to pursue some such course as this in order to oblige the people applying to me for it.

Very truly yours,

*Wak*

1893-12-04

Personal.

December 4th,

3

A. B. Chandler, Esq.

44 East 14th. Street, City.

Friend Chandler:-

Yours of the 1st. to hand.

I have written to Brown & Smith offering them positions.

If you hear of any other men let me know.

Very truly yours,

Jac  
I

1883-12-04

December 4th. 3

Paul D. Dyer, Esq.

161 Carondelet Street,  
New Orleans, La.

Dear Sir:-

I have your favor of the 28th. inst.

If you are not near home at Christmas time we will allow you the amount of your expenses to get to Washington and back to the point where you are at work. I presume you have no objection to this. Of course we sympathize with a man who goes into a town like New Orleans and buys his experience at the rate of \$30. a lesson.

Our business is getting along swimmingly. At the present time we are erecting the following central stations, Fall River, \$40,000., Newburgh, N. Y., \$40,000., Vallejo, \$15,000., Mt. Carmel, \$14,000. and Hazelton, \$20,000. The last three places are in Pennsylvania. Lima, Ohio, \$13,000., Tiffin, Ohio, \$14,000. and Middletown, Ohio, \$13,000. We shall start in Williamsport in the course of a week, contract \$53,000. Brockton, Lawrence, Shamokin and Sunbury are running elegantly, getting all the customers we want and making money. This is the state of our business in brief.

I have been going for our boys in the office for not sending you bulletins, but they do not contain any information about

1883-12-04

2

about our central stations. The New York Central Station is just "booming", collections \$10,000. per month. Have more customers than we can possibly carry, and if we get through December without a breakdown it will simply be that the "angels" are on our side, as we have too many lights connected already.

I sail for Europe on the 11th. December and shall be away until the 1st. February and if you do not get any word from this office that you can go home to spend Christmas just take "French leave", and charge your expenses in your weekly statement and if they "kick" refer them to this letter.

Very truly yours,

BB

1893-12-04

December 4th.

3

A. B. Chandler, Esq.

44 East 14th, Street, City.

Friend Chandler:-

Yours of the first to hand.

With relation to Colonel Sherman, he goes to Buenos Ayres solely for the Edison Electric Light Company, and I cannot see how it would be possible for him to do business for any one else. He is as you state a "queer dick", but seems to be an indefatigable worker.

Very truly yours,

Jac  
I

By Edison Machine Works,

1893-12-04

December 4th. 1893.

A. A. Cowles, Esq. Secty.

18 Cliff Street, City.

Dear Sir:-

I am still receiving complaints from our Superintendent of the delay in shipping him wire and bars for armatures and magnets. Cannot you hurry forward a heavy shipment, so as to give us something to work on. The quantities shipped to us are so small right along that we are continually in arrears and consequently obliged to continually complain, which I can assure you is very distasteful considering the manner in which you oblige us in other contracts. I am

I am having a statement prepared of the exact shipments made within the last few months. I will come down and see you about the matter probably Thursday or Friday.

Very truly yours,

The Edison Machine Works,

By

89

1883-12-04

December 4th, 1883,

W. H. Dwyer, Jr. Esq. Treas.

Full River, Mass.

Dear Sir:-

We have your favor of the 1st. inst., and immediately on receipt of same arranged to borrow an armature from the Isolated Company, in order to accommodate you, under the circumstances.

We wired you this morning that the armature would be shipped this

*afternoon*  
~~afternoon~~. You must remember that we do not keep a stock of armatures of the old form of machines on hand, and consequently we have some difficulty in filling your orders for same right away.

*order*  
If you ~~order~~ an armature it takes at least two weeks to make same.

Very truly yours,

The Edison Machine Works,

By





1993-12-04

December 4th.

3

W. W. Dwyer, Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have the pleasure to acknowledge receipt of your favor of the 1st. inst.

The spare dynamo were shipped to Mr. Andrews either on Saturday or Monday.

We purposely kept back the meter supplies &c. until the other work is practically completed, as our experience is that parts get lost in the confusion of getting the station in order.

We will, however, have everything necessary shipped forward this week.

, Temporary fixtures and insulating joints will all go forward. Lamps will in all probability go to-day, if they were not shipped yesterday.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *S. J.*

1883-12-04

December 4th.

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

I am much surprised to receive your favor of the 30th, November. If you will look over your contract you will find that the third payment is due thirty days after the plant is in condition to supply light, and your plant has been in condition to supply light considerable time, and what I ask for is for a payment on account, and there is a balance left which, together with the extra tubes laid, gives an ample margin for any such troubles as you speak of. You are short about \$100. worth of meters at the present time.

Your indicators are made in accordance with the indicators got up by the Engineering Department of the Edison Electric Light Company, but notwithstanding this I propose to replace them as soon as I have a stock of an indicator of a more recent design, which I got up myself within the last month. I am not compelled to do this under my contract, but propose to do it in order to give you an article which, in my opinion, is best suited to your business.

Our Superintendent claims that the work is done properly and asserts that every other injector has been connected in the same way elsewhere.

You state that your engines have ten inch belts, when they should have twelve inch. This is simply a matter of opinion on your part. We have not allowed more than a ten inch elsewhere.

I would request you to reconsider your decision as to withholding the check for \$5,000., as I think I am fully justified in asking for it at the present time, more especially as we have lost considerable money in the installation of your plant at Lawrence.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th.

3

Messrs. Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We think, in reply to yours of the 24th. ulto., we prefer to wait and make a successful installation rather than risk failure, which the plant you suggest would in all probability lead to.

Very truly yours,

Thomas A. Edison Constn. Dept.

by



1883-12-04

December 4th. 3

W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

We shall be ready to ship the two small machines to Brockton sometime this week, and we shall be glad if you will send us by return an exact plan of that part of the engine room showing the position of the present small engine and dynamo, also the position of the large engine and the two dynamos. What I want to find out is whether it will be necessary for us to move the small engine from its present position, to enable us to drive two dynamos from each side of the shaft. If this is necessary it will add very materially to the expense of making the change, but if it is unnecessary we can supply the new dynamos and make some alterations with the engine and make the necessary connections for about \$850. In this of course we allow for taking back the present "H" dynamo which you now have. I will write you to-morrow giving absolute figures for which we will make the change.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

*Steam Engines*

December 4th. 3

Messrs. Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We have your favor of the 26th. November, and in reply beg to state that our business being a peculiar one we have to use material best adapted to it. The Babcock & Wilcox boiler is the only one which we can use and rely upon. It is a quick steaming boiler and takes care of the great variations in our load, which rises often from ~~100~~ to 150 horse power in the course of ten minutes. We have tried every other kind of boiler and find that it is the only one we can use. The old tubular boiler is very much cheaper, but absolutely of no use to us.

About three years ago we experimented on every form of engine we could find and have ever since continued the same experiments. We have never, however, found an engine suitable to our business as the Lawrence engine. It would take too long to go into all the reasons for explaining the advantages of it, so it must suffice for me to say that it is as much a part of our plant as the dynamo, and we shall continue to use it until we find some other engine equally as good as that manufactured by the Armington & Sims Co.

Very truly yours,

*Sf*

1883-12-04

Piqua

December 4th.

3

M. H. Hoffmann, Esq. Pres.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 30th. November enclosing check for \$3,400.75, being twenty five per cent of the contract price for the erection of a central station plant at Piqua, Ohio.

I shall be glad to hear from you whether the contract is to be made with your Company or the local Illuminating Company of Piqua. Immediately on receipt of this information I will send you signed contract. If the contract is to be made with the Piqua Company, please send me full information as to the officers of the Company, copy of the subscribers and amount of their subscriptions.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-04

Piqua

December 4th.

3

A. A. Dowlen, Esq. Secy.

19 Cliff Street, City.

Dear Sir:-

We enclose you herewith order for wire for Piqua, Ohio.  
Please have the necessary papers made out and forwarded to us for  
signature. The amount of our contract with the Edison Electric  
Illuminating Company of Piqua, Ohio is \$13,070.40

Very truly yours,

Thomas A. Edison Constr. Dept.

By



Enclosure.



1883-12-04

December 4th. 3

A. A. Cowles, Esq. Secty.

10 Cliff Street, City.

Dear Sir:-

Referring to your favor of the 3rd. inst., will you please have the necessary papers in connection with the order for the Middletown, Ohio, wire. Our contract is with the Edison Electric Illuminating Company of Middletown, Ohio, and the amount of same is \$13,400.31

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12 05

December 5th. 3

Frank B. Mc Cormick, Esq. Prost.  
Williamsport, Penna.

Dear Sir:-

I am going to leave here for Europe on Tuesday next,  
and should very much like to take with me a letter from you as  
President of the Sanbury Company, stating your experience with  
your plant and the length of time you have been running, the  
number of lights you now have, the cost of running, your receipts  
and what you look forward to making.

This will be of immense assistance to me in dealing  
European  
with some of Mr. Edison's friends. Will you so far oblige by  
sending me this as soon as you can.

Very truly yours,



1893-12-05

December 5th. 3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

I am going to leave here for Europe on Tuesday next, and should very much like to take with me a letter from you as President of the Shamokin Company, stating your experience with your plant and the length of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This will be of immense assistance to me in dealing with some of Mr Edison's European friends. Will you so far oblige by sending me this as soon as you can.

Very truly yours,



1883-12-05

December 5th. 3

Messrs. Bradstreets,

211 Broadway, City.

Dear Sirs:-

I shall be glad if you will inquire into the standing of the Edison Electric Illuminating Company of Middletown, Butler County, Ohio. The stockholders are, we understand, as follows:-

D. McCallay, R. Wilson, C. P. Johnson, C. H. Wardlow and J. F.

Thomas, besides some Cincinnati parties with whom we are acquainted

What we particularly want to know is the standing of the gentlemen

whose names we mention, and what is thought of this new Company

in Middletown.

Very truly yours,

*Zak*  
*J*

1883-12-05

December 5th.

3

W. D. Rich, Esq.

Dear Sir:-

Referring to your plan of Bellefonte, I regret to inform you that the sketch you have sent us indicates that the arrangement of the interior of the station is entirely opposed to the methods which Mr. Edison desires us to pursue in designing the interior of stations. Of course this is a matter which you could not be posted about, but I would be glad if in the future, before making any alterations in our plans, you would please refer the questions to this office, so as to give our engineers an opportunity of expressing their opinion on the matter. You have placed the cylinders of the engine as far away from the boiler as possible whereas it is Mr. Edison's desire that it should be as near to the boiler as possible, so that the engineer can attend to his throttle and see that this boiler is all right without moving from one position.

I am afraid that when Mr. Edison comes to visit Bellefonte he will criticize very severely the proposed arrangement there. Are your foundations so far advanced that it is impossible for us to alter the arrangement? If so, of course we must leave the matter as it is, as there is not sufficient margin to allow of our building the work up again.

1883-12-05

2

I am going to have a plan prepared with the same size building as you have arranged, but with the machinery and interior of the station arranged so as to conform with Mr. Edison's ideas as to the matter. He is very positive in his instructions on these questions or else I should not trouble you as to the ~~same~~ <sup>point</sup> involved.

There is also another point, whenever you alter the plan of a building you should advise us of the exact alterations, either before the alterations are made, which would be preferable, or if that is impossible after the work is completed.

We desire to make some alterations at Brockton just now and we understand that the plans in our office of the station shows by no means the same measurements as the arrangement of the station itself. Our machinery is always placed with the idea of effecting alterations at the least possible expense. We have to take out one "H" dynamo at Brockton and put in two dynamos, each of half the capacity of the "H", and these we propose driving from a pulley on each end of the shaft of the <sup>1</sup>2 x 10 engine.

We very much fear that we shall have to take the engine down and build a new foundation in order to do this. We have written to Mr. Jenks for the exact measurements, as Mr. Sprague informs us that our plans are incorrect, as I have stated above.

Very truly yours,

89

1893-12-05

December 3th.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

A Mr. Spencer, a friend of Sprague's, is very anxious to start in our business.

I have requested him to report to you at Fall River.

You might start him in like the rest of the novices and see what he <sup>is made</sup> ~~is made~~ of. Mr. Edison says that he is very well posted and will turn out a very useful ~~man~~. Please advise us the day he arrives in Fall River.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

SA

1883-12-05

December 12th. 8

John Ott, Esq.

1492 Avenue B, City.

Dear Sir:-

Mr. Tate complains to me that he does not think that the orders of our Construction Department have any particular attention down *at* the laboratory. If he has reason to make this complaint again, I shall bring the matter to Mr. Edison's attention, as I wish you to understand that it is important that any instructions we issue as to our material should receive prompt and thorough attention.

Very truly yours,

Thomas A. Edison Constr. Dept.

By *SP*



1813-12-05

December 5th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

Referring to your favor of the 2nd. December, will you please get the authority from Major Eaton authorizing us to canvass and prepare estimates for Kingston & Rondout.

Mr. Krussi has not yet been able to let us have his two estimates for Haverstraw and Poughkeepsie. Immediately he does, however, we will push the estimates through as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



December 3th.

3

Frank H. McCormick, Esq. Pres.

WilliamSPORT, Panna.

Dear Sir:-

We wrote you on the 19th. November asking for a  
settlement of our account with the Edison Electric Illuminating  
Company of Sunbury, but have received no reply *from you*

Will you please let us hear from you in relation to the  
matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *SA*

1883-12-05

December 5th. 2

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We wrote you on the 20th. November, asking for a settlement of our account with you, but have received no reply.

Will you please send us a remittance by return.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-05

December 5th, 1883,

W. H. Dwyer, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

You will greatly oblige us if you can arrange us a remittance by return mail for the amount of our account against you.

We enclose you herewith statement showing balance against you of \$3,051.75

Very truly yours,

The Edison Machine Works,

By 

Enclosure.

1883-12-05

December 5th.

3

George Crower, Esq.

Testing Room,

104 Goerck Street, City.

Dear Sir:-

I send you herewith half a pound of ~~commercial~~ sulphate of zinc from Powers & Weightman. I shall be glad if you will test this and give us an exact ~~xxx~~ record of the test. Messrs. Powers & Weightman claim that this is as good zinc as Leach & Pank's chemical pure.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

Enclosure.

1883-12-05

December 5th. 3

W. J. Garrison, Esq. Treas.

Boston, Mass.

Dear Sir:-

We enclose you herewith statement of account which explains itself, and shall be glad to receive your check for the balance \$1,027.42 at your early convenience.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



Enclosure.

1883-12-05

December 5th.

3

I. Weinschank, Esq.

50 West 24th. Street, City.

Dear Sir:-

Referring to your favor of the 3rd. inst., I will  
call at your place on Monday next about ten o'clock.

Very truly yours,

*Wm*  
*I*

1883-12-05

December 5th. 1883.

Western Edison Light Co.

Chicago, Ills.

Dear Sirs:-

We beg to enclose you herewith statement of account showing balance against you of \$3,180.13

I shall be very much obliged to you if you will allow us to draw on you at sight for this amount, and if we do not hear from you by telegraph to the contrary we shall send a draft forward for collection on Saturday next.

Trusting that you will be able to oblige us, we beg to remain,

Very truly yours,

The Edison Machine Works,

By



Enclosure.



1893-12-05

December 5th, 1893,

Messrs. Hermann & Co.

203 Avenue B, City.

Dear Sirs:-

If you have that block of slate, will you please send it down to Soldan immediately, as Mr Edison wants him to work it up into a commutator right away.

Very truly yours,

The Edison Machine Works,

By



1883-12-05

December 5th. 3

George H. Bliss, Esq.  
Chicago, Ills.

Dear Sir:-

We have your favor of the 3rd. inst.

One 32 candle lamp is equivalent to two 16 candle lamps.

You must have the dynamo you refer to in a hot place, or else you do not keep the brushes at the non-sparking point.

If they are placed two blocks away from the non-sparking point, the machine will heat more, even if 50 extra lamps were put on it. We are improving our new machines in the matter of commutators.

We must confess that we cannot understand why it is, but the troubles with machines seem to come <sup>almost entirely</sup> from your territory, as we do not hear of any troubles from any other places that amount to anything.

Very truly yours,

Zac  
L

1883-12-05

December 5th. 3

Messrs. Northmann & Co.

203 Avenue P, City.

Dear Sirs:-

Referring to your favor of the 5th. inst., we certainly think that we should receive the special articles we use at prices better than those at which you sell them to outside customers. Of course we have to charge in our contract a higher price than what we pay you for the goods. Consequently unless you pursue the course we suggest, we shall be in the position of charging more for your material than it can be bought from you direct, which certainly is not advisable considering that the articles which I refer to are such as you make particularly for us, and any outside customer would certainly not require any such quantities as we do. Why cannot you arrange to allow us a discount of 30 per cent and ~~other~~ people a discount of 10 per cent, or do I understand that you have already quoted 30 per cent discount. *to everybody* I should think that if you had not, that you could make an exception in the case of central station articles as against the discounts you allow on articles of general manufacture.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1883-12-05

December 5th.

3

U. D. W. Vroom, Esq.

Trenton, N. J.

Dear Sir:-

Referring to your favor of the 3rd. inst., if you will send on the affidavit that is necessary I will execute and return it to you forthwith.

Very truly yours,

*U. D. W. Vroom*

December 5th.

3

Straight Line Engine Co.

Syracuse, N. Y.

Dear Sirs:-

Referring to our correspondence as to the straight line engine, I shall be glad if you will build me a 10 x 12 engine, having two driving pulleys thereon 50 inches in diameter and 11 inch face. We should require to run the engine at speeds varying from 240 to 270 revolutions. We shall have to depend on you entirely for drawings, as we have no draughtsman to send you.

Very truly yours,

*Yak*

7882-12-05

December 5th.

3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We have a report from one of our men at Tiffin stating that you quoted 3 1/2 per cent discount to some local parties there for Bergmann & Co's fixtures, whereas Bergmann & Co. have quoted 15 per cent. Bergmann & Co's discounts vary according to the nature of their orders and the people they are dealing with (like everybody else's discounts) and they have asked us to request you not to mention discounts in the future.

Very truly yours,

Thomas A. Edison Constn. Dept.

Ky



1883-12-06

December 6th. 3

Francis W. Upton, Esq.

East Newark, N. J.

Dear Sir:-

Mr. Andrews writes us that for the future he will run  
the bank of test lamps separate from main line in stations.  
If the lamps are picked the matter of low volts will be of no  
consequence.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-06

December 6th, 3

G. W. Wilbur, Esq.

Post Office,

Mobile, Ala.

Dear Sir:-

Your favors of the 27th, November and 2nd, December came duly to hand, and we are obliged to you for the information contained therein.

I have referred the matter of lighting the hotel to Mr Hutchinson, of the Isolated Company.

I telegraphed you to-day to Atlanta to canvass Mobile and Danville, Va. We have no connections in either of these places, so you must choose a district for yourself, making the canvass as ample as possible.

You had better try and arrange your canvasses so as to return to New York before Christmas.

About the commencement of the New Year we shall start you at work in Boston canvassing there, and shall probably keep you East some time.

Your friend Lyons is in Wellsborough, Penna.. He will be in that State that whole of this month.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

89



1883-12-06

December 6th, 1883.

Messrs. Woodward, Sherwood & Co.

17 Montgomery Street,

Jersey City, N. J.

Dear Sirs:-

We have now a pattern shop in connection with our  
Works at Coeck Street. Will this make any difference in our  
insurance?

Very truly yours,

The Edison Machine Works,

By



1883-12-06

December 6th. 3

G. B. Markle, Jr. Esq.

Hazleton, Penna.

Dear Sir:-

We have your telegram of this date, and at once telegraphed to our Superintendent, who is now in Ohio, and we hear from him that he will be in Bellefonte on Monday and will in all probability be in Hazleton the next day.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1893-12-06

December 6th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

We have information that your engineer got drunk the other night and left the station in charge of a boy, and we also hear that your lights are very poorly regulated, and that the City Hotel people have threatened to go back to Gas unless there is a change for the better. We trust that this is not so, and write you for information.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-06

December 4th. 3

W. D. Rich, Esq.

Post Office,

Bellefonte, Penna.

Dear Sir:-

We have your various telegrams and beg to confirm the several telegrams we have sent you as to Mt. Carmell, Bellefonte and Hazleton.

It does not seem to us that the work in these places is being sufficiently pushed. This is no fault of yours, but arises from the fact that you have so much to handle, and we would remind you that we spoke to you when you were here and thought you made a mistake in not having men who could take the initiative in starting work, even during your absence you have got to do something of this character with them.

To-day we have telegraphic instructions that Williamsport has been finally closed and work will have to proceed there right away. We will send all the information about Williamsport to Hazleton, where we presume you will be about Monday.

Enclosed please find check for \$500. as requested.  
Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-06

December 6th. 3

Thomas Spencer, Esq.

South Meriden, Conn.

Dear Sir:-

If you are willing to start in our business and learn our central station work, please report immediately to Mr W. S. Andrews at our central station in Fall River, Mass. You can find out the exact location of the station by applying to Mr W. H. Dwyer, Jr., Treasurer, Edison Electric Illuminating Co., Norden Block, Fall River.

Until such time as your services are valuable to us we will allow you a nominal salary of \$10. per week and <sup>may</sup> ~~also~~ railroad fares etc.

Please advise us immediately if you decide to start in with us.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1853-12.06

December 6th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have your telegram stating that the lot has been purchased in Piqua, and we have also received a telegram from our Superintendent stating that he would be in Piqua to-morrow morning.

We must confess that we feel somewhat annoyed that he should be kept in Middletown with practically nothing to do, as his time is very valuable to us indeed, and we would urge you in the future to be sure that you have our lot purchased before ~~we~~ <sup>ask him</sup> to start work on a plant.

Very truly yours,

Thomas A. Edison Constn. Secty.

By



1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Leonard is very anxious to go out to Ohio. We simply wish to notify you of his wish. It must rest with you entirely as to whether he should go there.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1893-10-07

December 7th.

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Do you know where Farby is? I could give him probably a month or six weeks work at Mt. Carmel. The last I heard of him from you was that he was at Lawrence. If he is there still when will he be disengaged? Please wire me on receipt of this, as I have a letter in the office which I cannot answer until I hear from you.

Yours truly,

Thomas A. Wilson Constn. Dept.

By





1883-12-07

December 7th.

3

L. L. Van Praagt, Esq.

P. O. Box 344,

Salt Lake City, U. T.

Dear Sir:-

In reply to your favor of the 30th. November, Mr. Edison desires me to state that were he not well versed in the laws of electrical science he would be unable to make any progress whatever. I may myself add that a long series of successful electrical inventions have never been known to be the product of casual thought.

Yours truly,

SL  
PS

1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

I am obliged to you for your favor of the 6th. inst., enclosing design for three wire cut-out. The matter is having the attention of Mr. Johnson and he will doubtless get up a cut-out for the purpose in time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-07

December 7th. 8

J. N. Blauvelt, Esq.

23 Clinton Place, City.

Dear Sir:-

I have made inquiries with relation to the references you gave me, which prove entirely satisfactory.

I shall therefore be glad if you will report here for duty on Monday morning next.

Your salary will be \$12. per week.

It is of course understood that you come here for trial, as we can hardly judge as to your abilities until we have had some experience with you.

Yours truly,

SK  
PS

1883-12-07

December 7th. 3

Judge J. F. Dunn, Esq.

Tiffin, Ohio.

Dear Sir:-

We have a letter from our Mr. Walker with relation to wiring.

Our object in sending him to Tiffin was to teach a local plumber or gas fitter to be appointed by you to do outside wire-work. The whole of the transactions with outside parties should be conducted by this plumber. Our Mr. Walker should simply supervise the plumbers work and teach him how to run the business. It would be a great mistake for your local Company to do the wiring itself. This we find from extended experience. You should appoint some local man to do it, and have him deal with your consumers in the same manner that we are running our business in Shamokin. There the local gasfitter has charge of the wiring, and our Illuminating Company has nothing whatever to do with the matter. We sent them a man who taught the gasfitter the business, and it is with this object that Mr. Walker has been sent to Tiffin.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. L. Garrison, Esq.

Boston, Mass.

Dear Sir:-

We have to-day got out the map of Auburn, and we will write you to-morrow or Monday in relation to the matter of the desirability of the town for electric lighting.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-07

December 7th. 3

H. H. Hoffman, Esq., Pres.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 5th. inst., and in reply beg to state that we will post you of any delay in the work at Piqua, Tiffin or Middletown. We do not anticipate any at present, except in the case in the delay from a matter over which we had no control of and of which you are aware, as it is connected with the purchase of a lot at Piqua.

We have not received the executed contract of Piqua, although we are going ahead with the work. Will you please send this on. It was mailed to you some time back.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th.

H. W. Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 4th. inst.

You must arrange with Mr. Andrews as to your going to Ohio. He has full charge of our electrical staff and the disposition of the services of the members of same. We have written him saying that you would like to go to Ohio.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-07

December 7th. 3

Henry G. McCormick, Esq. Pres.

Williamsport, Penna.

Dear Sir:-

We have your favor of the 6th. inst., and in reply  
beg to state that the exhibits you refer to, namely, the map and  
estimate, form part of our contract. It must, however, be under-  
stood that we undertake to run the lines in the places indicated,  
provided we are able to get the permit from the owners of the pro-  
perty on the route. Our estimate does not cover any payment for  
this right, and should we be unable to get past any particular  
point, we shall look to your Company to make the necessary arrange-  
ments to enable us to do so.

In sending our contract please give us a note confirming  
this.

You are right in understanding that we will run the sta-  
tion for thirty days after it is started.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 



1883-12-07

December 7th. 3

Messrs. Powers & Woughtman,

City.

Dear Sirs:-

The sample of sulphate of zinc, which you gave me, tested very well indeed, except that there are traces of iron in it. Will you please quote us a price for this article and also sulphate of zinc free from iron, the quotation to be based on orders of half a ton, done up in 25 lb. tin cases. Please send us a sample of sulphate of zinc free from iron. If we gave you orders we would expect to receive the sulphate of zinc subject to its being tested.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. D. Rich, Esq.

Hellefonte, Penna.

Dear Sir:-

Your numerous telegrams, including the long one from Piqua, have come to hand.

Of course all we could do was to judge of the state of the work by the telegram we got here, and which we promptly repeated to you. If what you say is so, I would advise you to go for Mr. Markle and the other gentlemen for sending such an erroneous telegram of this kind.

We are still, however, of the impression that you will find that you are unable to handle so much work without a little better assistance than you now have, as we have never understood that you men could go out and start work without your being present to give them preliminary instructions. Of course we may be in error about this matter, and we are interested to see how long it will take to put up the present stations and form correct conclusions in relation to how our work should be run. I presume if your system fails you will have no objection to trying ours. We are now standing off to see what will be the result. Of course it is our wish that you should be able to run the thing according to your present methods, and if you are able to do so we shall be

most agreenbly disappointed.

very truly yours,

Thomas A. Edison Constn. Dept.

By

8/17

1883-12-07

December 7th. 3

Paul D. Dyer, Esq.

Post Office,

Galveston, Texas.

Dear Sir:-

If you work like a race-horse, and get through the towns you now have to canvass South before Christmas, we will give you a "picnic" after Christmas in the shape of a district in New York to canvass. It will be a kind of a vacation to you.

Yours truly,

A handwritten signature, possibly "S. J.", written in dark ink.

1893-12-07

December 7th,

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We shall have one of the pressure indicators got up  
by John Ott sent to you immediately Bergmann turns it out.  
Mr. Edison will not allow me to send the model away.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Pall River, Mass.

Dear Sir:-

We return you herewith sketch of your clutch which you propose to use at Lawrence. We have ordered Bergmann to go ahead and make the box, leaving you to take care of the clutch part of the business.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-07

December 7th. 3

Edmund Davis, Esq.,

66 Washington Street,

Providence, R. I.

Dear Sir:-

We have your favor of the 5th. inst. If you will  
send proof of the sketch which you propose issuing we shall have  
no objection to your using it, providing we approve of it.

Very truly yours,

*Wm*  
*W*

1883-12-07

December 7th. 3

I. C. Walker, Esq.

care Judge Bunn.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 4th. December.

Your duty at Tiffin is to take in hand the local plumber and his men and teach them how to do our wirework. This you should be able to do without any further assistance from New York. We were able to follow this course at Chamokin and we are able to do it at Tiffin. In fact it is imperative that this should be done, otherwise our expenses will be very heavy in sending men from here and having them do the wiring in Tiffin. The wiring also should not be done for our account. The plumber should be appointed by Judge Bunn, and any material they use we will bill to them if you will notify us when you deliver it over to them.

We have already sent you the new calculations for inside wiring and will send a table for calculating the three wires services as soon as possible.

Use the time sheets of the Insulated Company and send us a specimen of any suggestions you may wish to make and we will have sheets got up for our Construction Department.

The business anyway should not be conducted by you, but



1883-12-07

it should be conducted by the local plumber, under your supervision and direction.

I have ordered the material you speak of and will send it forward as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-10

Battery, Storage

December 10th.

3

G. W. Brewko, Esq.

Clinton, E. Feliciana, L. J.A.

Dear Sir:-

Referring to your favor of the 24th, November, I would state that your suggestion is a practicable one. An induction coil throwing a spark of half an inch with two cells of battery, the whole set up in portable form and having two brushes of wire, would do the work. I have no time at all to experiment on the matter, as my business occupies the whole of my attention.

Very truly yours,

T. A. C.

Edison Lamp Co.

1893-12-10

December 10th.

3

Francis R. Upton, Esq.

East Newark, N.J.

Dear Sir:-

Will you please send to me at 21 Burton Crescent,  
London, W. C. England, a statement of the Lamp Company's affairs  
up to the end of November. I desire this so that I can explain  
intelligently to Mr. Batchelor the exact standing of the Lamp Co.  
I have a letter from him this morning in which he asks me to do  
this.

Very truly yours,

S. I.

Dynamoes

1883-12-10

December 10th. 3

M. J. Jones, Esq.

Brockton, Mass.

Dear Sir:-

We have your favor of the 5th inst.

As soon as our engineers have figured on the sketch you sent us, we will write you definitely as to what we can do in relation to the small dynamoes. We have them ready to ship, but there is no object in sending them to you until we know exactly how we can place them.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

S. I.

1893-12-10

December 10th. 3

W. J. Garrison, Esq. Treas.-

Boston, Mass.

Dear Sir:-

We have your favor of the 7th. inst..

We have written Mr. Rich with relation to the Cornwall  
Heat Regulators, and as soon as we hear from him will remit for sa  
same. At the present time we have no bill for them in our office.

With relation to J. W. Bailey & Son's bill the letter  
you enclose is the first that we have heard of it. In fact we  
have no bills on our books for the Brockton central station.  
As soon as we can get word from Mr. Rich in relation to these  
matters we will liquidate the claims. Meantime we must request  
that you do not send checks for same, as there may be some reason  
for their not being paid.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

Telegraph - Gen.

1883-12-10

December 10th.

3

S. B. Harvey & Thos. Hearsby,  
403 Pioreo Street,  
Phila. Penna.

Dear Sirs:-

Referring to your favor of the 4th. inst., the best  
way to learn telegraphy is to go into a telegraph office as a  
telegraph boy and pick it up in that way.

Yours truly,

T. A. J.

1883-12-10

December 10th. 3

Messrs. Markle & Ball,

33 Congress St.,

Detroit, Mich.

Dear Sirs:-

We have your favor of the 7th. inst., and your wishes in regard to estimates shall receive our attention.

Mr. Cooke will not be withdrawn from your territory until he gets through.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-10

December 10th. 3

W. D. Rich, Esq.

Dear Sir:-

The Bellefonte people object to the  
use of asbestos roofing. I presume you will settle this matter  
with them.

Yours truly,

Thomas A. Edison Constn. Dept.

By





1113-12-10

December 10th. 3

W. D. Rich, Esq.

Dear Sir:—

You may remember of my speaking to you about the boilers at Lawrence. We have a letter from Mr. Lord in which he says:—

"I know that when we feed our boilers with cold water the steam is so damp it will not do much more than half duty, although the pressure remains constant or nearly so."

I think Mr. Lord claims that the trouble is with the injector connections to the boiler. Will you please let me know what you propose to do in the matter.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1873-12-10

December 10th. 3.

W. D. Rich, Esq.

Dear Sir:-

We enclose you herewith letter from Mr. Garrison, together with bill and letter of J. W. Bailey & Son.

Will you please let us know per return about the Corn-wall Port Regulators and J. W. Bailey & Son's bill, as if the claims are correct we want to pay them. It gets us into rather bad odium to have matters stand over.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

Enclosure.

1883-12-10

December 10th. 3

A. Stuart, Esq. Secy.  
Cincinnati, Ohio.

Dear Sir:-

Referring to your favor of the 6th. inst., you will have  
and this have received information to the effect that our Superin-  
tendent has started the work at Piqua.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-10

December 10th. 3

W. J. Hammer, Esq.

Berlin, Germany.

Dear Sir:-

Referring to your letter with date, I think if you will look up my patents you will find that one of them covers a patent for taking care of the irregularities in a gas machine.

DYNAMOS. The "H" machine is tested for 400 amperes. 500 lights means nothing, suppose they were 50 candle lights. Please talk amperes. We have Batchelor the carrying power in amperes. Since you received the model "H", we have reduced the resistance of the armature by using larger wire, thus raising it up so that it runs cool with 400 amperes on it. You people were in such a hurry to receive your model, that we were compelled to ship you the first machine we had, and because there was considerable delay in making the shipment you seem to ~~get~~ the impression that we were not paying attention to you. If you had left us to ship you what we considered our best machine, we should not have shipped the 400 ampere machine, but would have waited at least a month after the date that we made the shipment.

We can send models of a half horse power and one smaller

1913-12-10

size motor for sewing machines.

With relation to the lamp factory, I note what you state as to the desirability of having your lamp factory in Germany itself. I will send you the apparatus that you may order, but it will be quite impossible for us to supply your Company with any men. Our staff has already been reduced too much by sending out our assistants to Europe, and we must really look to ourselves in relation to this matter. We have now reduced the price of the ten candle lamps to 30 cents. As we make more of them we shall probably reduce the price further, but the shrinkage in the manufacture of the lamp is probably greater than in any other. We do not use any "P" Lamps at all to speak of in this country.

I will have copies of estimates and plans sent forward to you in the course of a week or so. You will be able to get information in relation to these matters from Mr. Insull, who leaves here on Tuesday.

We do not propose putting the three wire tubes in the downtown district, as the whole of that district is now covered with the two wire tubes. We are, however, arranging to build another station uptown, which will be run on the three wire system. All our small town plants, whether underground or overhead, are

also motor for starting machine

3

run on the three wire system.

3

Very truly yours,

T. A. G. G.

1813-12-10

December 10th.

3

Colonel C. Goddard,  
City.

My Dear Goddard:-

I have your memorandum of the 8th. inst.

I was under the impression that you were still out of town, as the estimate has been waiting here sometime.

The mere fact of my being away will not prevent your getting estimates made out here.

Tate will communicate with you as to the estimate.

Many thanks for your kind wishes as to my trip.

If there is anything that I can do for you over there, if you will address me care of The Western Electric Co., 59 Moorgate Street, London, E. C. England, I will have great pleasure in attending to your requests.

Very truly yours,

S. J.

1883-12-10.

December 10th. 3

Colonel G. Goddard,  
City,

My Dear Colonel:-

I got your letter written Saturday this morning, and am sorry that I could not see you prior to your starting for Boston. I am now just in receipt of your letter of Sunday night.

My Address in London is, 21 Burton Crescent, London, W. C. England.

I shall be very happy to attend to any matters for you there. Please drop me a line stating what you want me to do as early as possible, as my stay in London depends entirely upon how long I shall be kept by certain business I have to attend to.

My cable address is "Insull". In writing me please mention your cable address, in case it should be necessary for me to use the wire.

Thanking you for your very kind wishes, and hoping that you will have a pleasant Christmas, believe me,

Very sincerely yours,

*S. I.*



1883-12-10

December 10th.

3

Secretary,

Edison Electric Light Co.

74 Coleman Street,

London, E. C. England.

Dear Sir:-

I beg to advise you that my Private Secretary, Mr. S. Insull, will arrive in London about the 20th. inst., and will in all probability be in Europe about a month.

While he is there I trust that he will be able to make arrangements with you for the settlement of my patent account, and also hope that he will be able to get a revision of my contract with you in relation to patents, as in its present form there are many objections to it. He will explain to you when he calls on you what I desire to achieve in this connection.

Very truly yours,

J. A. E.  
J

1883-12-10

December 10th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batch:-

Yours of the 25th. ulto. came to hand this morning.

I will have all the data as to accounts with me when I arrive in Paris. I have got a variety of matters that I want to go into with you there, but the main thing is to show you how necessary it is, alike for our business and your own interests, to come back here. Knowing your wishes in the matter I do not think you will need my persuasion.

Write me to London, saying whether you will be in Paris right along from about 27th. December. I hope to get there by New Year's anyway.

My London address is Samuel Insull, Jr., 21 Hurton Crescent, London, W. C. England.

Very truly yours,

S. I.

1883-12-10

December 10th. 3

Compagnie Continentale Edison,  
Paris, France.

Dear Sirs-

Referring to your correspondence as to the prices I have quoted for lamps and the fact of my having entered into competition with your factory as stated by you, I beg to advise you that my Private Secretary, Mr. Samuel Insull, will be in Paris early in January, and will call on you with relation to the matter, and I trust will be able to make some arrangement satisfactory equally to you and myself.

Very truly yours,

J. A. E.

1883. 12. 10

December 10th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 5th. inst., I informed  
Mr. Oakley that we should no longer require his services, as I  
understood from you that he was hardly good enough for our work.

Yours truly,

Thomas A. Edison, Genl. Mgr.

By



1883-12-10

December 10th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 7th. inst., we have quite a stock of wire ordered, which of course must be used up before we start in with the straight rods which you suggest for interior use in stations. The Ansonia people could make the wire for us in twenty foot lengths as they do for the Tube Co., but we would prefer ordering it in twelve foot lengths, as it can be handled in shipment much easier in the latter lengths.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-10

December 10th. 3

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 6th. inst., and in reply beg to state that the interpretation we put upon our contract with you is exactly what we have always understood it to mean.

We do not understand what you mean as to the engine pulleys. Do you mean the pulleys on the 8<sup>1</sup>/<sub>2</sub> x 10 or the 14<sup>1</sup>/<sub>2</sub> x 13 engines as being all right, if we send you 10 inch pulleys on the dynamos, that is do you want 10 inch pulleys on the spare dynamos or on the main machines?

With relation to the use of 12 inch bolts, we have very great respect for the opinion of Mr. Sims, but we must confess that we prefer that our engineers should decide all questions in relation to the engineering of our stations. When we think that our office talent is deficient, we may possibly call on Mr. Sims for his opinion in the matter.

We have written to Mr. Rich in relation to your boilers. He is now in Pennsylvania. Of course if there is any trouble, for which we are to blame, we will fix it.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*T. A. Edison*

1883-12-11

Dec. 11th,

3

Mr. W. Taylor & Co.,

Willow Springs, Jackson, Co.

Oregon.

Dear Sirs:-

Replying to your letter of the 24th, inst. I beg to say that Professor Price, of San Francisco, is in my opinion the most trustworthy assayer in the United States, and I would suggest your communicating with him.

Very Truly Yours,

*Wm*  
*BE*

1883-12-11

Dec. 11th,

3

Mr. W. S. Andrews,

Gen. Electrical Engineer.

Box 565 Fall River.

Dear Sir:-

We have your letter dated at Lawrence of the 7th, inst. in relation to sending Mr. Leonard to Ohio.

In reply we beg to say that the management of the Electrical Station is entirely in your hands. And you must dispose of your men as you think best.

In regard to the number of Feeders in the Williamsport installation, we had a new canvass made of this place as the one we had in the Office was an old one made by the Light Co. We are now having a new Electrical Determination prepared, and will advise you to-morrow by wire as to the number of feeders. It is <sup>over head</sup> ~~a hand~~ installation.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

ADJ



1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer,  
Box 565 Fall River,

Dear Sir:-

In reference to your letter of the 9th, inst. we do not think it at all likely that Piqua and Middletown will be ready as soon as Tiffin is finished. At Middletown they have not yet secured the lot for Central Station purposes. And the work on Piqua has only just been started, either Bellefont, or Mt. Carmel will follow, after Tiffin Piqua may come in about the same time as Hazelton, but Middletown will certainly be the last on the list.

In relation to Spencer please note the attached letter, you better start him to work at a salary of ten Dollars per week, we to allow his railway fares.

Please return Mr. Spencer's letter for perusal.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By



1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer,

Box 865 Fall River.

Dear Sir:-

In regard to books of questions and answers, we do not in each case take receipts for them. Conant Doubleday & Leonard, such and a set, but we cannot at the moment remember whether any of them were returned or not. In any event it would be as well to issue a caution.

In regard to Readers at export there are four.

Very Truly Yours,

Thomas A. Edison, Construction Dep't.

By

*ALY*

1883-12-11

December 11th, 1883.

Gustav Solder, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

Referring to the attached letter from Mr. Dwelley, in which he complains of the workmanship on the second "H" dynamo at the Flint Mills, please read same and let me have your answer at the earliest possible moment.

Yours truly,

The Edison Machine Works,

By *A. J.*

1883-12-11

*Steam Engines*

\*Dec. 11th,

Mr. Frank S. Marr, Treas..

Edison Electric Illuminating Co.

Sunbury, Penn.

Dear Sir:-

Mr. Edison has requested me to write you, suggesting that you make sure that your water supply for Boiler will not freeze up this winter. Mr. Edison states that it is his opinion it will be affected by frost. Have the said mains been laid yet?

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

*T.A.E.*

1883-12-11

December 11th. 3

E. W. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 7th. inst. addressed to Mr Insull, in which you state that we are unbusinesslike for delaying your orders.

We would beg to remind you that this material is not made by us and therefore we only indirectly control its production. Upon the receipt of your letter we immediately wrote to Messrs. Hoffmann & Co. censuring them for the delay to your material and the inconvenience they put us to thereby, and in replying to us they admit the fault, and are hurrying your orders to the greatest extent possible.

There were shipped to you to-day, 10 extra bottles, 10 extra pairs zincs and 10 sets of rubber fixtures each for the 12 light, 25 light, 50 light and 100 light motors, also five 12 light meters complete and fifteen 25 light meters complete, and as we have stated above the balance of your order is receiving our special attention.

The cost of the meters which you now have on hand at Lawrence, namely, 25 for 6 lights, 25 for 12 lights, 10 for 25 lights, 10 for 50 lights and 5 for 100 lights, together with the

1883-12-11

2

extra bottles, plates, zincs and rubber parts, amounts to about \$375., and in order to prove to you that we are not short on our ~~contract~~ <sup>contract</sup>, we would refer you to same, which calls for meters of different capacities from the above, yet amounts to only \$530. The changes in the size of the meters were made of course at your request.

In view of the above facts we should be glad to receive from you your check for \$3,000., as requested some few days ago. There is sufficient margin left after paying us this money to enable you to discuss safely any matters wherein you think we have failed to live up to our contract.

The Lawrence installation has been pecuniarily disastrous to us, and we have urgent use for the money which we now ask you to send, and we trust that we can rely upon its receipt within the next few days.

Very truly yours,

*Law*

1883-12-11

Meters

Dec, 11th, 3

Mr. H. Ward Leonard,

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

In relation to form of Meter Blank which you prepared  
some little time ago, will you be kind enough to send me a copy.  
I believe you sent me a specimen, but it has been mislaid in the  
office here.

Very truly Yours,

Thomas A. Edison, Construction Dept.

By

G. O. T.

1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Box 505 Fall River,

Dear Sir:-

Replying to your letter of the 9th, inst. in which you asked us to get ~~per~~mann & Co. to make a small cheap four point switch, similar to our ~~Best~~ House changing switch. Will you please send us a diagram of what you want drawn to scale.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By

A.O.L.



1883-12-11

December 11th.

3

L. Weinschenk, Esq.

50 West 24th. Street, City.

Dear Sir:-

In reply to your note of the 10th. December, I regret very much not having been able to keep the engagement I made with you, but I was called away.

I will meet you on Wednesday (to-morrow) at ten o'clock.

Very truly yours,

*Wm. J.*

1883-12-11

Dec: 11th,

Geo. H. Bliss, Esq, Gen, Sup't,

Western Edison Light Co.,

52 Wabash Ave. Chicago, Ill.

Dear Sir:-

We have your letter of the 8th, inst. in regard to Lima. We will be ready for the parties just as soon as they are prepared for business.

Very Truly Yours,

Thomas A. Edison, Construction Co.

By

*A. Q. J.*

1893-12-11

December 11th. 3

W. H. Twelley, Jr. Esq. Treas.  
Fall River, Mass.

Dear Sir:-

We learned this morning that you sent an order to the Edison Electric Light Company for 500 sixteen candle power lamps for use in connection with the Fall River central station.

We would now call your attention to the fact that the Fall River installation is for ten candle power lamps, Fall River being a coal gas town, we supply lamps of this power, and they, in practice, are always run at twelve candles, which will give more light than any five foot gas burner in your City.

We would strongly advise your recalling this order, or possibly there has been a mistake made and sixteen candle power lamps ordered instead of ten.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*any*

1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer.

Box 565 Fall River.

Dear Sir:-

*Kirby*  
~~Query~~ Replying to your letter of the 9th, inst. in regard to  
don't you think it would be a good idea to simply state  
incidently to him, that Mt. Carmel, Hazelton and other places  
are now being started, and that he could do well at these differ-  
ent points, "on his own hook."

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By *AOJ*

1813-12-11

December 11th. 3

Messrs. Marble & Hall,  
33 Congress Street, W.,  
Detroit, Mich.

Dear Sirs:-

In further reply to your favor of the 7th. inst., we beg to say that we have the map of Grand Haven prepared and will send it to you to-morrow to obtain option on lots for central station purposes. After receiving information in regard to lots, and choosing therefrom the one best suited to our business, it is only a matter of a few days to supply an estimate. We should therefore be glad to know if you would like us to send you the estimate for Grand Haven, which you could hold yourself until prepared to present it to the local people, or if you would prefer us allowing the matter to remain in abeyance in this office until we receive instructions from you to go ahead with the work.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Aves*

1883-12-11

Dec. 11th,

D. M. Osborn, Esq.

Auburn, N. Y.

Dear Sir:-

We send you under separate cover, a Blue Print of Auburn. But in addition to supplying us with information in accordance with the attached form, we wish you would be kind enough to look over the district we propose wiring, and ascertain if there are any obstructions which would prevent our taking the course we propose. We propose so laying under-ground mains in this place, and their course is indicated by a red line.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By

OOJ

1883-12-11

December 11th. 8

A. Staart, Esq. Secty.  
Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 8th. inst. in reference to the new form of special report which we sent you to have filled out for a number of towns. We do not wish you to send a man around specially to obtain this information, but we presumed that you were in communication with local parties who could furnish the information we required. As you will notice the form is much more complete than the old one which we used.

If you can obtain the data for us, as stated above, we should be glad to have it, otherwise we do not wish you to go to any expense in order to get it.

We return herewith Mr. Dyer's report on Lima as requested.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-11

Dec. 11th,

Mr. P. E. Shaw,

Care Ohio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. O.

Dear Sir:-

Replying to your letter of the 6th, inst. we beg to say that we cannot send the canvasser to Pottsville as soon as the canvass of Circleville is completed. This will probably be in a weeks time.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.



1883-12-11

Dec. 11th,

Mr. P. E. Shaw,

care Ohio Edison Installation Co.

North West Cor. 3 & Vine Sts. Cinn. O.

Dear Sir:-

We have your letter of the 6th, inst. including the communication from Mr. Bichter as to the progress at Mt. Carmel, which we beg to return unrequested. We are getting ahead at Mt. Carmel just as fast as we possibly can. But of course we cannot expect the local people there to see the difference between the erection of a house, and the installation of an Electric Light Plant. It will not be very long before these people are in a better humor.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.

1883-12-11

December 11th. 3

H Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 7th. inst. in which you ask for a copy of the book of Questions & Answers.

We would beg to remind you that Mr. Edison gave you a copy of this book when he was at Brockton.

The blue book containing table of conductors you can obtain from Mr. Andrews.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. A. H.*

1883-12-11

December 11th.

3

Sir John Lubbock,

15 Lombard Street,

London, E. C. England.

My Dear Sir John:-

This will introduce to you my Private Secretary  
and business representative, *Mr. Saul Knell* who goes to London to spend Christmas  
there. Whilst he is on your side of the Atlantic he will have  
various business matters to settle with the Edison Electric Light  
Company of London.

Any assistance that you can render him will be greatly  
appreciated by,

Yours very sincerely,

*T. A. C.*

1873-12-11

December 11th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

Mr. Edison has <sup>requested</sup> ~~asked~~ me to write you, suggesting that you make sure that your water supply for boiler will not freeze up this Winter. Mr. Edison states that it is his opinion it will be effected by Frost. Have the street water mains been laid yet?

Very truly yours,

S J  
PS

1883-12-11

Dec. 11th,

Mr. Chas. P. Lyon,

Circleville, Ohio.

Dear Sir:-

We have your letter of the 7th, inst. The canvass of Wellsboro came to hand to day.

In regard to when you should commence canvassing a town, you should always start work at dusk, just as the people commence lighting.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.

1883. 12-11

Dec. 11th,

John Lucas, Esq.

Hawks Nest, P. O.

West, Va.

Dear Sir:-

Replying to your letter of the 4th, inst. in relation to running a machine for boring coal by Electricity, I beg to say that the electrical part is hardly practicable. Unless wires run through the drifts to furnish power and light, from a Dynamo at the existing works.

Very Truly Yours,

J. A. E.

Dec, 11th,

3

Straight Line Engine Co.

Cor. Madison & Fayette Sts.

Syracuse, N. Y.

Dear Sirs:-

We have your letter of the 6th, inst. in relation to a Pattern Maker. We regret to say that we have not a man in our employ at the moment whom we could send. But are in communication with a first class pattern maker, whose services we expect to secure. On this subject will write you more definitely in a day or two.

Very Truly Yours,

Madison Machine Works,

By

A. O. T.

1883-12-12

December 12th. 3

Gen. Anson Stager,

care Mc. Ginnis & Peering,

30 Broad St. City.

Dear Sir:-

The following is a list of towns in Southern Illinois which I would propose to canvass and make estimates for for your Company. Please advise us if we shall go ahead.

Alton, population	8,578,
Bellville	" 10,000,
Cairo,	" 4,014,
Champaign,	" 5,104,
Springfield,	" 19,740,
Decatur,	" 9,540,
Jacksonville,	" 10,927,
Lincoln,	" 5,875,
Witchfield,	" 4,320,
Paris,	" 4,370,
Quincy,	" 27,275.

Very truly yours,

*J. H. J.*



December 12th. 3

Charles T. White, Esq.

104 Liberty Street, City.

Dear Sir:-

Have you on hand any sulphate of zinc free from iron  
and would you be kind enough to send us a sample? If the material  
is satisfactory, we would like to give you an order for a quantity  
of it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Ray*

1883-12-12

December 12th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have your letter of the 6th. inst. requesting us to order four more plug switches for bank of test lamps, which we have done.

In regard to pulleys on the "S" machine, this dynamo is run in connection with a <sup>1</sup>9 2 x 12 engine, <sup>and</sup> which must have a 10" pulley. If we use 12" pulleys on the "S" machine, the Armington & Sims people would have to put a 37" pulley on their <sup>1</sup>9 2 x 12 engine, and as the 47" is their standard pulley, we do not wish to make a change.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *A. J. [signature]*

1883-12-12

December 12th. 3

A. B. Chandler, Esq. Pres.

Fuller Electric Light Co.

Union Square, City.

Dear Sir:-

Did you ascertain about Smith's wages? Please give me his full name, as I have forgotten it.

Very truly yours,

*JAC*  
*7*

1883-12-12

Dec. 12th,

Frank S. Marr, Esq. Treas.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:

We beg to enclose herewith statement showing the amount due us at the present time by the Sunbury, Co. It is chiefly made up by the balance due on contract, the other items are for wire, and some small fixtures, which we send at your request.

Very truly Yours,

Thomas A. Edison, Constn. Dep't.

By

A. C. S.

1883-12-12

Sunbury

December 12th. 3

Frank H. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

In relation to your letter of the 4th. inst., in which you state that the belt you are using on one of the Sunbury engines shows signs of wearing and should be replaced, and that it was only put in service temporarily, we beg to say that we cannot understand why the belt should have given out so soon, nor have we any recollection of it having been placed there with the understanding that it was to be removed and another one substituted. Our Superintendent, Mr. Rich, states that the belt was respliced at Sunbury and that the work was well done. It is exactly the same article that we are using in connection with other installations, which latter are giving perfect satisfaction.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

907

1883-12-12

December 12th. 3

Col. C. Goddard,

Care Time Telegraph Co.

Temple Court, City.

Dear Sir:-

We beg to enclose herewith our estimate No. 67, A for the erection of a Central Station Edison Electric Light Plant at San Jose de Guatemala of 400 lamps capacity of 14 candle power each, and amounting to \$23,445.91

We also send you map of San Jose de Guatemala with the district marked off.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*Ray*

Enclosures.

1883-12-12

December 12th. 9

Charles T. Hughes, Esq.

Poughkeepsie, N.Y.

Dear Sir:-

We beg to enclose herewith our estimates Nos. 77, 77, A and 77, B, for the erection of an Edison Electric Light Central Station Plant at Poughkeepsie, New York, and amounting to \$23,649.40--\$40,007.42 and \$34,786.65, together with their attended maps.

In relation to estimate No. 77, by referring to the Street Installation, you will see that the district we propose wiring, in the event of his estimate being accepted, covers 2,648 lights. Estimate 77, A provides for 3,411 lights in the district and estimate 77, B for 1,630 lights. By referring to the maps accompanying these estimates you will find the course of the street installation marked thereon. It will therefore be unnecessary for us to go into a lengthy comparison, as it only remains for you to choose the one you consider best suited for the purpose.

In submitting these estimates it is of course understood that the local Company obtain all necessary permits for us to open streets and lay our tubes, in accordance with whichever one they may accept, and we will not in any way be responsible for any failure to obtain these, which might prevent our laying mains, as

1883-12-12

shown on the map.

Trusting these will meet your requirements, we are,

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*W. A. S.*

Enclosures.

*W. A. S.*

*W. A. S.*  
*W. A. S.*  
*W. A. S.*

*T*

*W. A. S.*  
*W. A. S.*



1883-12-12

December 12th. 8

John Hoskin, Esq.

6 Ledger Building,

Phila. Penna.

Dear Sir:-

We have your letter of the 11th. inst., and in reply  
beg to say that if the speeds of both dynamos do not vary much from  
what they are set up at and the resistance boxes are proportioned  
so that the load will divide according to the capacity, they will  
run perfectly together. We run them this way in our central  
station plants.

Very truly yours,

*Jac*  
9

1893-12-12

December 12th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N.Y.

Dear Sir:-

We beg to enclose herewith plan of the central station we propose erecting at Poughkeepsie, also estimate of daily running expenses and statement of probable profits on a \$50,000. capitalization, which latter shows an excellent percent for dividends.

We also enclose the remaining estimate for this plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *Edison*

Enclosures.

1873-12-12

December 12th.

3

Messrs. Kent & Auerbach,

3 Broad Street, City.

Gentlemen:-

I understand the case of Smith vs. Edison is on the Calendar and will be soon reached for trial. I desire to associate with you in the suit Mr. J. C. Tomlinson. You will be good enough to allow him to examine all the papers, and consult with him as to the conduct, management and trial of the suit.

Very truly yours,

*John*

1893-12-13

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 565,

Fall River, Mass.

Dear Sir:-

We have your letter of the 11th. inst. in reference to the belts for driving the two <sup>4</sup>/<sub>2</sub> dynamos being too long.

The reason that those belts are of improper size is that the dynamo has been set 11<sup>3</sup>/<sub>4</sub>" too near the engine, and not in accordance with our plans, which say 10' from center to center.

Would it not be possible to move those dynamos back 11<sup>3</sup>/<sub>4</sub>"?

If not, we would prefer having the belts respliced.

Yours truly,

Thomas A. Edison Constat. Dept.

By

*A. E. Constat.*

1883-12-13.

December 13th. 3

E. H. Lord, Esq. Treas.  
Lawrence, Mass.

Dear Sir:-

We have your telegram of yesterday instructing us to send 10" pulleys for the "6" dynamos.

In this connection we beg to say that we always use a 12" <sup>Pulleys</sup> ~~when~~ when an U<sup>1</sup> 2 x 10 engine is driving this machine. At the Pearl Street station in this city we have run a 14<sup>1</sup> 2 x 13 engine at 350 revolutions for seventeen consecutive days with perfectly satisfactory results.

The U<sup>1</sup> 2 x 10 engine at Lawrence would have to be run at about 325, if you use 12" pulleys, and we do not consider that 325 revolutions per minute is too high a speed for this small engine, when we have obtained such results as above stated from the 14<sup>1</sup> 2 x 13. Furthermore, if you use 10" pulleys you will have trouble by the belt slipping, inasmuch as it does not form as good a contact with that size of pulley as it does with the 12". If, however, you still desire to use 10" pulleys we shall be glad to send them on immediately you advise us, but we consider it advisable to mention the above facts before filling your order.  
Very truly yours,

Thomas A. Edison Constn. Dept.

By *ASH*

1893-12-13

Dec. 13th,

3

Gustav Soldan, Esq.

Edison Machine Works,

104 Goerck, St. City.

Dear Sir:-

Replying to your letter of the 11th, inst. wherein you state that it would be advisable to have a complete set of drawings for the Straight Line Engine. We beg to say that we have a complete set made, and the letter sent you stated that they were making the patterns.

Verym Truly Yours,

Edison Machine Works.

By

AOJ

By

1883-12-13

December 13th. 3

Personal.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Can you give us any idea as to when the Fall River station will be ready to start? We are aware that there is a quantity of electrical material which has not yet gone forward, but if you can make a start and introduce these fixtures afterwards it will be of very great service to us financially.

We presume you have heard nothing from Mr. Rich as to when Tiffin will be ready for you men. We have to-night asked him this question, and will advise you upon receipt of his reply.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-13

December 13th.

3

W. C. Smith, Esq.

542 Pearl Street, City.

Dear Sir:-

Could you possibly come to this office to have an interview with me sometime to-day. Let me know by bearer what time we I may expect you, in order that I may be in when you arrive.

Very truly yours,

*J. A. K.*



1883-12-13

Dec. 13th,

3

W. S. Andrews, Esq.

Box 505 Pull River.

Mass.

Dear Sir:-

We have by ur letter of yesterdays date in regard to Williamsport and Newburg, we wired you on the 11th, inst. that there were 4 Feeders at Newburg. And yesterday we sent you a telegram, stating that there were 5 Feeders in the Williamsport Installation. Since sending the latter telegram, we are in receipt of a letter from the Williamsport Co. stating that they have not yet secured a lot, and asked our indulgence until we hear further from them. In view of this fact we wired you this morning, to do nothing to Williamsport material, until you were advised further from this Office. We will send you the information you desire at the earliest possible moment.

Very Truly Yours,

Thomas A. Edison, Constr. Dep't,

By



1883-12-13

December 13th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

Can you tell us when the Tiffin station will be ready for our electrical staff to commence work on the inside wiring? We would like to start them on this work at the earliest possible moment. Will you kindly send us a letter stating exactly the condition of the advancement of the central stations at Hazleton, Mt. Carmel and Bellefonte.

Yours truly,

Thomas A. Edison Constn. Dept.

By.



1873-12-13

December 13th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

We send you herewith two plans of the Bellefonte station, one marked "A" having been prepared from the sketch you sent us giving the details of your proposed arrangement, and the other marked "B" is one which has been prepared in this office.

By referring to these plans you will see that both buildings are exactly the same size, and the the same capacity of plant is obtained without increasing the length of either building.

Were we to adopt the plan which you sent us and put in the engine and boiler (upon which we have made a cross) it would be impossible for the engineer to attend to his engine and look after his steam, *without very great inconvenience*

We have marked with the letter "A" on our plan the positions of the boiler and engine which we now propose to install, and by reference to same you will see that it is a much more convenient arrangement than the one you suggest. The only difference it makes in the interior arrangement of the station is to reduce the length of the office from 13' to 11' 4". Mr. Andrews' brings his wires in at the skylight, and you will see that there is plenty of room for electrical apparatus along the walls of the building and away from the dynamo. We therefore think it desirable that you

should adopt this plan, and shall be glad to have any comments you may wish to make upon it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosures.

1893-12-13

Dec. 13th,

3

W. D. Rich, Esq.

Central Edison Electric Ill. Co.

Hazleton, Penna.

Dear Sir:-

We have your letter of the 9th, inst. in regard to boiler plan of Middletown and Piqua. We believe that this style of setting is to be used only where Bituminous Coal is burned, we note your objections to this setting however, and shall be glad to have you use your own judgment as to the way in which it should be done.

Very Truly Yours,

Thomas A. Edison, Constn. Dept.

By



1883-12-13

December 13th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 11th, inst in regard to the extension of the Tiffin plant, and during the past few days have received all your telegrams urging upon us the necessity of shipping the material at once.

Your ideas as to the amount of work necessitated by this extension are altogether too small. It will be impossible for us to obtain the copper under two weeks, and in view of this fact we have wired you that we cannot keep our men there, as we understand from our Superintendent that all the pole lines at Tiffin will be finished on Saturday next.

We have wired you to-night that the cost of this extension will be \$3,748.17, and we beg to enclose herewith our estimate for performing the work and supplying the material. Upon its acceptance, we will immediately take active steps to make the desired addition to your plant.

Mr Rich is altogether mistaken when he states that it will not increase the cost of feeders. The extension necessitates a new feeder and consequently additional electrical apparatus in

1883-12-13

2

the inside of the station.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

Enclosure

1883-13-13

December 18th. 3

M. C. Rollnap, Esq. Treas.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We have your letter of the 12th. inst., asking us for a list of prices for which we will furnish tubing and wires for service, and in reply we beg to state that we will supply you with this material at cost price.

The way the Fall River and Lawrence Company did was simply to give us an open order to supply them with as many services as were necessary, and we billed the material to them at the rate as stated above.

If you will give us a similar order, we shall be very glad to furnish you with whatever services you require. They certainly should be put in at once, as it will save a great deal of labor in the future, when you might possibly have to contend with heavy frost.

Yours truly,

Thomas A. Edison Constn. Dept.

By 



1883-12-13

December 13th. 3

Messrs. Bergmann & Co.

203 Avenue B, City.

Dear Sirs:-

In relation to the attached letter from Messrs. Powers & Weightman, do you not think it would be a paying business for you to carry a stock of say 1,000 lbs. of this material, for the purpose of supplying our numerous central stations with what they require? They would consume considerable in the course of a year, and inasmuch as you could purchase it for fifteen cents a pound and sell it for twenty five cents a pound, the enterprise would remit good profit. Let us know if you will do this.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*aes*

Enclosure.

1893-12-13

December 13th. 3

Paul D. Nyar, Esq.

Tremont House,

Galveston, Texas.

Dear Sir:-

We have your interesting letter of the 11th. inst., and in relation to your obtaining options on lots we think it would be a good idea for you to get exact sizes and prices of as many lots near the center of each town as you can.

In regard to the amount you are paying for your expenses at the present time, if you will let us know how much it is in excess of the allowance made you, we shall be very glad to credit your account with the difference.

You have apparently missed sending us a portion of your letter or else you have forgotten to sign it.

Have you ever received the new form of special report, which we sent you about a month ago?

Mr Insull sailed for Europe yesterday to be gone until the latter end of January. We presume you received his letter telling you to go home for Christmas.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. E. G.*

1893-12-13

December 18th.

3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.

65 Fifth Avenue, City.

Dear Sir:-

I have the pleasure to hand you herewith account amounting to \$7,788.74, being amount due my Construction Department, also account amounting to \$1,115.00 for sundry amounts paid by me on the Light Company's account.

In addition to the above there is the amount expended by me on electric railroad experiments, for which you already have my account, amounting to \$36,541.80, and also about \$25,000 expended by me at the Edison Machine Works in improving your dynamo machines, with the result of decreasing the cost on some of the types of dynamos about twenty five per cent, and increasing the number of lights obtained from such machines about forty per cent.

With relation to my railroad experiments, inasmuch as the inventions in connection therewith have been transferred to the Electric Railroad Company, I presume my accounts in relation to this matter must stand over. Although by stating this I wish it to be clearly understood that I consider that I have a valid claim

1883-12-13

2

against the Edison Electric Light Company for the amount I have expended in this connection.

As to the cost of the dynamo experiments, in consideration of the kindness shown by the Light Company in carrying my stock for me, it is not my intention to ask them to reimburse me to the amount referred to, more especially as the rendering of account of this character is usually the cause of great irritation.

In this connection I may mention that I am now experimenting with the object of increasing the capacity of the central station dynamo but inasmuch as my means are limited I cannot conduct the experiments on any such scale as the importance of the matter would warrant, and I would urge upon your Directors the necessity of placing at my disposal \$30,000. for this purpose. Of course it is very difficult to estimate the exact cost of such experimentation, and I mention this amount as a limit and not as giving an indication that the experiments would cost as much.

I shall be glad if you will arrange to pay the small account due (\$1,118.60), and my Construction Department account (\$7,700.74) at an early date, inasmuch as the latter must of necessity receive additions or deductions from month to month.

I would suggest that the payment of \$5,000. on account

1893-12-13

3

be made immediately.

Very truly yours,

J. A. E.  
y.

Enclosures.

1983-12-13

December 13th, 1883,

F. S. Hastings, Esq. Treas.

Dear Sir:-

In relation to the attached note, under date of November 18th. for \$3,000., payable 90 days from date to our order, please make same payable to the order of Thomas A. Edison, and debit our account with the amount.

Very truly yours,

The Edison Machine Works,

By

*A. E. S.*

1893-12-13

Dec. 18th, 1903

J. F. Bump, Esq. J. P.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 10th, inst. in reference to wiring. We are of the opinion that you have made a great mistake by pursuing the course suggested by Mr. Stuart. Our experience has been, that it is a fatal error for the local Company to have anything whatever to do with the wiring.

In regard to lighting blocks, 44, 46, 48, and 50, we to day are in receipt of a telegram from Mr. Stuart, asking us to light blocks, 44, 46, 47, 48, but he makes no mention of block 50. We will send to night an estimate for this work, in accordance with Mr. Stuart's telegram, and if the sum is satisfactory we will order the material and have the work commenced without delay. You must understand that it is a very unsatisfactory thing to do work of this kind without having an estimate accepted in the regular way. We have no doubt whatever but that our bills would be satisfactory, and accepted when presented to you, if we were to do the work upon that basis of understanding. But in as much as it is not the regular way of doing business,

1883-12-13

2

we prefer to submit an estimate, and upon its acceptance we  
will proceed to make the desired addition to your plant.

Very Truly Yours,

Thomas A. Edison, Constn., Dep't,

By

ALJ



1883-12-13

December 13th, 3

Spencer Sorden, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 11th. inst., and in reply would call your attention to the fact that when you were in New York last Worcester was one of the towns of which you made a memorandum that you were to attend to in regard to obtaining options on lots. In order that it may not again escape your memory, we send you by this mail another chart of this town marked with a circle, within which it is desirable to obtain these options. Upon receipt of this information, we will prepare and submit estimates.

Owing to the press of work, and also on account of having to re-model the Gayorhill estimate, we have not up to this writing been able to dispatch it, but it will be forwarded to you to-morrow and Portland we will send you early next week.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

1883-12-13.

Dec. 13th, 3

W. H. Winant, Esq.

Caro Armour Bros. Banking Co.

Kansas City, Mo.

Dear Sir:-

In further reply to your letter of the 4th, inst., we beg to say that we will require a lot 50 x100, for Central Station purposes. As the ground within the red circle on map sent you is so valuable, we would suggest as the next best point, to obtain a lot the northern portion, of blocks 48, and 49, and blocks C, 7, 50, and 51.

We are very much obliged for the information you gave us in reference to running our pole lines, and we send you this morning another map, which is marked in accordance with your letter and we shall be glad to know if the same meets with your approval. We also send you another map, which has been marked with lines showing the proposed course of underground conductors, in case this class of conductor is considered more satisfactory than over head wires. We would like you to examine this chart, and give us information as to whether permits could be obtained for opening up the streets upon which we propose to run. In connection with the above, we should be glad to hear from you as

as early as possible, in the mean-  
time we remain

Yours Truly  
James A. Baird, Genl. Dept.

James A. Baird, Genl. Dept.  
New York City, N.Y.

Dear Sir:-  
In further reply to your letter of the 11th inst.,  
and to say that we will supply a lot of wire for Central  
line purposes. As the ground within the red circle on map  
you is so valuable, we would suggest as the next best point to  
obtain a lot of the northern portion of blocks 22, 23, and 24  
of V, 25, and 26.  
We are very much obliged for the information you have  
us in reference to running out pole lines, and we send you this  
morning another map which is marked in accordance with your letter  
and we shall be glad to know if the same meets with your ap-  
proval. We also send you another map which has been marked with  
lines showing the proposed course of underground conductors, in  
case this class of conductor is considered more satisfactory  
than over head wires. We would like you to examine this chart  
and give us information as to whether parties could be obtained  
for opening up the streets upon which we propose to run. In con-  
nection with the above, we should be glad to hear from you as

[INCOMPLETE]

1893-12-13

December 13th. 3

W. H. Andrews, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

We have your letter of the 13th. inst. in reference to pressure indicators, and in reply beg to say that we differ with you very materially.

It is the easiest matter imaginable to keep this adjusted and we think that the more you work with them the better you will like them. Mr. Syngue entertained the same ideas in regard to them as you do when he first saw them, but he has since become thoroughly converted. We think you should wait and work with them awhile before you write them down.

In regard to having the conductors for inside work sent out in straight lengths, we can have any wire which has not yet been shipped out in accordance with your letter, but if it has been shipped it would hardly pay to bring it to New York, have the Ansonia people straighten it and return it to its destination.

In relation to running the 8<sup>1</sup>/<sub>2</sub> x 10 engine at 300 revolutions, we have at our Pearl Street station in this city run a 14<sup>1</sup>/<sub>2</sub> x 13 engine for seventeen consecutive days at 350 revolutions,

1883-12-14

December 14th.

3

J. F. Bunn, Esq.

Tiffin, Ohio.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 12th. inst., and in reply would say that we are very much gratified to learn that you have made arrangements with outside parties for wiring. In your management of this the only point which does not meet with our approval is your having offered a premium to people as an inducement for them to take the light. We really think you will have cause to regret this.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

1873-12-14

December 14th.

3

Fréd Catlin, Esq.

108 Broadway, City.

My Dear Catlin:-

Yours received. Johnson is fixing up a hose and a dynamo giving 2,000 volts to give an exhibition. He has measured the water stream and finds it about 650 ohms, 2<sup>1</sup>/<sub>2</sub>" section per foot.

Very truly yours,

AO7

1883-12-14

*Shanekin*

December 14th. 8

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Mr Edison has requested me to refer the attached letter in regard to regulators for the opera house at Shanekin to you, with the request that you furnish drawings for these devices at the earliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. O. Y*

Enclosure.

1883-12-14

December 14th, '83

Electric Tube Co.

63 Washington Street, City.

Dear Sir:-

We have your letter of the 13th. inst. withdrawing your bids for the street installation in connection with the following points, namely, Hartford, Haverhill, Utica and Governors Island.

In relation to Haverhill, we were on the point of sending an estimate out when we received your letter withdrawing your bid. We shall therefore be glad to receive from you at the earliest possible moment another statement showing what you will charge to do this work, in accordance with the plans you already have.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AOY*



1883-12-14

December 14th. 3

William Schwab, Esq. Pres.

Ht. Carmel, Penna.

Dear Sir:-

In relation to the extension of the pole lines at Ht. Carmel and the alterations which you desire to be made in connection with them, we wired you this afternoon that the cost of making this change will be \$641.07.

We beg to enclose herewith our estimate No. 73, P for this work, and upon its acceptance we will order the additional wire and other material and have the lines erected in accordance with same. We also send blue print showing the proposed alteration of the Ht. Carmel pole lines.

Yours truly,

Thomas A. Edison Constn. Dept.

by

A. C. J.

Enclosures.

1883-12-14

December 14th.

3

John Hoskin, Esq.

6 Lodger Building,

Phila. Penna.

Dear Sir:-

In reply to your letter of the 13th. inst. I beg to say  
that it will require two resistance boxes, and they should be  
connected so that both will move together, but detachable.

Yours truly,

T. A. E.  
4

1883 12-14

December 14th. 3

H. C. McCormick, Esq. Pres.

Williamsport, Penna.

Dear Sir:-

Will you kindly let us know if we can cross with poles through the center of blocks B and C to the northern alley in block D.

We received your telegram of this afternoon giving location of central station.

We hope to-morrow to see Mr. T. G. Detweiler, from whom we had a telegram stating he would be in New York late to-night with the papers in connection with the Williamsport contract.

Very truly yours,

Thomas A. Edison Consn. Dept.

By

A. O. J.

1883-12-14

December 14th.

3

John Ott, Esq.

202 Avenue B, City.

Dear Sir:-

Have you ever made up any more of that duplicating ink?

Yours truly,

Jae  
J.

1883-12-15

December 15th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

We beg to inform you that on the U<sup>1</sup>/<sub>2</sub> x 10 engine sent to Fall River one of the pulleys, we presume the regulator pulley, has only a 7" face, while the other has a U<sup>1</sup>/<sub>2</sub> 2" face. As we drive from both pulleys of this engine and use U" bolts in connection with them, it is necessary that both should have U<sup>1</sup>/<sub>2</sub> 3" face, and it will therefore be necessary for you to furnish us with another pulley for this engine in accordance with the above.

Yours truly,

Thomas A. Edison Constn. Dept.

By A. O. J.

Please hurry the Bill  
forward to E. J.

1893-12-15

December 15th. 3

George P. Cross, Esq.

Pascerag, R. I.

Dear Sir:-

We have your letter of the 12th. inst., and in reply  
beg to say that Mr. Edison would like to have you send him your  
photograph.

Yours truly,

D. I.

Priv Sec.

1883-12-15

December 15th. 3

U. M. Osborne, Esq.

Auburn, N.Y.

Dear Sir:-

Will you be kind enough to send us the exact dimensions  
of the lot which you note on the chart of Auburn as the Simpson lot.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. E. T.

1883-12-16

Personal.

December 15th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

Will you be kind enough to let us know what your opinion is of the pole line work done at Tiffin by Hibler. Is it all good substantial work and what idea have you formed in connection with that part of the installation.

Very truly yours,

J. E.  
J



1883212-15

December 15th. 3

W. D. Rich, Esq.

HawJeton, Penna.

Dear Sir:-

We beg to confirm our telegram of yesterday's date stating that the Williamsport contract had been closed, and under same cover we send you a plan of the Williamsport station, also a sketch showing its position in relation to lot. You will notice that there are some alterations on this plan in connection with the stack. The dimensions as shown are correct, but the portion referred to is not drawn to scale. We will in a day or two send you another map drawn to scale.

We also send you a copy of our estimate, and wish you would be kind enough to fill out as accurately as you can the actual cost of each item.

We cannot as yet give you any information in regard to the number of poles you have to procure, as the course of the conductors is still under consideration and will not be finally decided until next week. It would be as well for you to go to Williamsport at once and arrange about the material for your building, and we will furnish you with the other information at the

earliest possible moment.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. J.

Enclosure, r.

1893-12-15

December 15th. 3

Frank B. Rae, Esq. Supt.

Commercial Telegram Co.

16 Broadway, City.

Dear Sir:-

In reply to your letter of the 14th. inst. we beg to say that we will give you seventeen cents apound for the wire you specified therein.

Please advise us if you will accept this offer.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*T. A. Edison*

1883-12-15

December 15th. 3

James S. Reager, Esq.

care Tiffin Edison Electric Illg. Co.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 13th. inst., and in reply  
her to say that we sincerely regret the disappointment you have  
met with in connections with discounts from Messrs. Bergmann & Co.  
We should be very glad to do all in our power to assist you in  
obtaining the discounts you desire were it not for the fact that  
we have no voice whatever in the management of Messrs. Bergmann &  
Co's affairs. Our only connection with them is that we order  
material from them for our central station work, and we never have  
occasion to order such material as is used for housewiring and  
fixtures which is always supplied by Messrs. Bergmann & Co. to  
the local parties who do the wiring.

If you will allow us to make a suggestion, we would say  
that we think you would be perfectly justified in calling upon Mr.  
Shaw to make good his guarantee, and by this means reduce the cost  
of the fixtures to the point desired.

Again regretting our inability to assist you in the  
matter, we bow to remain,

Very truly yours,

John A. Edison Cash & Co.  
By J. A. E.

1883-12-15

December 13th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Dear Sir:-

We are in receipt of a letter from our Chief Electrical Engineer, Mr. Andrews, and in referring to a book of questions which we have gotten up in order to examine engineers desiring to obtain positions with us, he states that in each case the said applicants for positions state that a boiler should be caulked cold and that the A. & S. engine should have a small load. This is in direct opposition to the views we have entertained in regard to these subjects hitherto, and we address you in the matter that we may obtain you very valuable opinion.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AOJ*

1883 12-15

December 15th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

We have your letter of the 14th, inst., and in reply we wish you would very kindly ask your engineer at Sunbury to send us an exact report as to the trouble he experiences with the belt in question.

We are pleased to know that you have made arrangements for a supply of water?

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. D. J.

1883-12-15

December 15th. 3

Messrs. Harris & Robinson,  
Hartford, Conn.

Dear Sirs:-

We beg to notify you that we today withdraw all estimates we have made up to this writing for the installation of an Edison Electric Light Central Station Plant at Hartford, Conn.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *A.O.T.*

1893-12-15

December 15th. 3

W. J. Jonks, Reg. Manager,

Brockton, Mass.

Dear Sir:-

In regard to supplying you with two 400 light dynamos ~~for the Brockton station and taking back one 500 light dynamo~~, we beg to say that we will furnish these two machines with regulators, set them up, furnish and put in switches and do all work in connection with making the alteration for the sum of \$1,200.

This bid, however, does not include any change of main shaft or pulleys of engine. We believe you are in communication with Messrs. Armington & Sims in regard to this latter change and that it is your intention to do that portion of the work yourself.

We enclose herewith a plan showing the positions of the engine and dynamos after the change is made. If you desire any further details in connection with our estimate we shall be glad to supply them.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*A. O. S.*

Enclosure, 1.



1883-12-15

December 15th. 3

W. S. Andrews, Esq.,

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We have received your communication in reference to Mr. George A. Hofmeyer, and the book containing his answers to questions in regard to engines and boilers came to hand to-day.

He appears to be fairly well posted, but yet will have to learn considerable before he will be thoroughly competent.

Will you please let us know his age, where he lives and what salary he is at the present time in receipt of, also his present duties and what salary does he expect to get from us, also what is his nationality?

We return to-night the book wherein he answers the questions referred to.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. G.

1883-12-15

December 15th, 1883.

Gustav Solder, Esq. Supt.

101 Second Street, City.

Dear Sir:-

On the 13th. inst. we referred to you a letter from the Western Edison Light Company in regard to furnishing them with the new style commutators for "F" machines, and we asked you to send us the price of this commutator and state at the same time whether you thought we could concede to their wishes. We to-day find that you replied directly to the Western Edison Co. In future when we ask you to give us information, will you be kind enough to reply to our request. It is impossible for us to maintain the correspondence of this office unless we are allowed to answer communications which are addressed directly to us.

Yours truly,

The Edison Machine Works,

By

J. A. E.

1883-12-15

December 15th, 1883.

Gustav Soldán, Esq. Esq.

104 George Street, City.

Dear Sir:-

We beg to say, in reply to your letter of the 13th. inst., that we shall of course have the drawings of the engine which the Straight Line Company are now making patterns from. It may be well for you to go up to their place some time in January.

Yours truly,

The Edison Machine Works,

By

J. A. E.

1883-12-15

December 15th. 3

M. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your letter of the 12th. inst. enclosing check for \$4,000. on account of the Lawrence installation.

In regard to pressure indicators, we hope in a few days to be able to supply you with the improved style of indicator which has lately been gotten up by Mr. Edison. These are perfectly reliable and will obviate the difficulties you meet with at the present time.

In regard to using you fairly, we wish you would prepare an exact statement of all the points wherein we have been at fault, and which you consider should be righted by us. We will then be able to take proper action in the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

aez

1883-12-15

December 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Coeck Street, City.

Dear Sir:-

Referring to the attached letter from Mr. W. E. Clarke, of the Lawrence Company, will you please let us know if the annature which burnt out at the Pemberton Company's Mill was defective and if the burning was due to such defect. Please answer this question to us, as we wish to write Mr. Clarke on the subject ourselves.

Yours truly,

The Edison Machine Works,

By

J. A. E.  
J.

Enclosure, 1.

1883-12-15

Personal.

December 15th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

Will you be kind enough to let us know what your opinion is of the pole line work done at Tiffin by Kibler. Is it all good substantial work and what idea have you formed in connection with that part of the installation.

Very truly yours,

J. A. E.

1883-12-15

December 13th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 13th. inst., and in regard to the lamps which Judge Bunn has requested you to have sent forward, we have to-night written Judge Bunn to send us an official order, so that the established routine of our business may be sustained.

Yours truly,

Thomas A. Edison Constn. Dept.

By

AOZ

1883-12-15

December 15th. 3

Charles T. White, Esq.

102 John Street, City.

Dear Sir:-

In reply to your letter of the 14th. inst., we beg to say that on account of the delay which has taken place in connection with supplying us with the sulphate of zinc ordered by Mr. Edison, we were obliged to place an order elsewhere.

We shall, however, be glad if you will send us a sample and also send 500 lbs. to Thomas A. Edison, care Bergmann & Co., 202 Avenue B, City.

Yours truly,

Thomas A. Edison Constn. Dept.

By





1883-12-15

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We have your letter of the 14th. inst. in regard to the belts used in connection with the "Y" dynamos at Fall River.

In regard to cementing these belts instead of riveting them, we adopted the former method of contact in order to stop the noise, but inasmuch as our experience with cemented belts up to the present time condems their use, we will in future have them riveted.

The chemicals for Fall River were shipped either yesterday or to-day, and we are hurrying Bergmann & Co. on the motors.

In regard to carrying in stock at our central stations a spare wrist pin strap and bearings for the Armington & Sims' engines, we will communicate with you later.

Yours truly,

Thomas A. Edison Constr. Dept.

By

A. O. J.

1883-12-15

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

In relation to starting the Fall River station, are you aware that Mr Edison desires to run this installation for about a day and a half without any lights whatever being cut in on the district. Please send us a telegram stating when you will be ready to start, so that Mr Edison can go to Fall River Monday night if necessary.

Yours truly,

Thomas A. Edison Const. Dept.

By

December 15th. 1883

1883-12-15

Messrs. Hergmann & Co.

202 Avenue B, City.

Dear Sirs:-

We beg to enclose herewith a letter from Mr. Andrews which he sent to us for perusal with the request that we should send it to you when we were through with it.

We consider Mr. Andrews idea as to having an "A" and a "B" amperé meter a very good one. Would it not be advisable for us to adopt these forms in future?

Yours truly,

Thomas A. Edison Consul. Dept.

By

A. O. J.

Enclosuré, m.

1893-12-15

December 15th. 3

Paul D. Dyer, Esq.

St. George Hotel,

Dallas, Texas.

Dear Sir:-

We have your communications of the 10th. inst.

We have to-day forwarded to Dallas the special report  
blanks and books which you require.

In relation to the amount which should be to your credit  
in this office, we are having the matter investigated and will  
advise you later.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

Decemberv15th.

3

A. V. E. Young, Esq.

39 Hancock, Street,

Boston, Mass.

Dear Sir:-

I have your letter of the 12th, inst. in reference to a position in my Laboratory for the son of Mr Adolph Satro.

I regret to state that at the present moment I have all the assistance in my Laboratory that I can use, but about the 1st. March I expect there will be an opening, when I shall be pleased to hear from you again in reference to a position for your ward.

Very truly yours,

J. A. E. J.

1883-12-15

December 15th.

3

E. Buchol, Esq.

201 Conti Street,

New Orleans, La.

Dear Sir:-

We have your letter of the 10th. inst., and regret exceedingly that a former letter which I wrote you has apparently miscarried.

The painting came to hand safely, and I can assure you that I am delighted with it. It is hanging in my office at the present time, and I consider it one of the finest pieces of work that I have seen in a long time.

Did you not make some request in your former letter in relation to a Phonograph? If you will repeat this I shall be only too happy to attend to it.

Again regretting that the transmission of my thanks has been so long delayed, believe me to be,

Very truly yours,

A. O. J.

1883-12-15

December 15th. 1883.

W. H. Dwyer, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have your letter of the 6th. inst. in regard to the second "H" dynamo supplied for the Flint Mills.

In regard to a hood on the armature, it is not now our custom to supply hoods, and this one was consequently shipped with a canvass head. If, however, you desire us to supply a hood, we can make one and forward it.

Our Superintendent informs us that there were no parts of this machine missing at the time it was shipped, so that if any of the parts have not been received at the Flint Mills, they must have been lost in transit. The machine which we sent you was not an old one. It would be impossible for us to supply our customers with old machines, inasmuch as the moment a machine is completed it is sold and shipped.

Yours truly,

The Edison Machine Works,

By

Sa E  
J

1883-12-15

December 15th. 3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.

65 Fifth Avenue, City.

Dear Sir:-

We have the pleasure to enclose you herewith our estimate No. 60 for the erection of an Edison Electric Light Central Station Plant at Louisville, Ky. of 6,400 lamps capacity, and amounting to \$100,078.19, and we beg to call your attention to the fact that the Street Installation provides for 7,624 lights, or 1,224 more lights than the nominal capacity of the plant.

We also enclose estimates of daily running expenses and probable profits, and you will observe that the latter shows excellent dividends upon a capital of \$250,000.

In regard to your memorandum of yesterday's date, we beg to say that it is not our custom to sign these estimates.

If, however, you desire this one signed, I shall be glad to comply with your wishes.

Very truly yours,

Jae  
3



1883-12-15

December 15th. 3

Edison Co. for Isolated Lighting,

J. Hutchinson, Esq. Secy.

City.

Dear Sir:-

We beg to notify you that we hereby cancel all estimates  
we have made up to this writing for the installation of an Edison  
Electric Light Central Station Plant at Governors Island, N. Y.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-15

December 15th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

We beg to enclose herewith our estimate No. 53 for the installation of an Edison Electric light Central Station <sup>at Haverstraw N.Y.</sup> plant of 500 lamps capacity and amounting to \$10,103.24, together with map marked "A" showing the course of the mains and feeders in red and white lines.

You will observe that this estimate is for an underground installation, and that the conductors are for 550 lights.

We cannot send this estimate out without stating to you that we consider it one of the cheapest bids we have ever made for an installation of that size. Haverstraw is the most compact town we have yet had to deal with, and for this reason our estimate is a low one.

In a few days we will send you another estimate for a pole line installation, but as a permanent investment we should very strongly advise the adoption of an underground system.

At Piqua, Ohio we are now installing a plant of 500 lights capacity, and the amount of the estimate is \$16,631.49

You no doubt understand that the estimate in question was formerly

\$18,878.49, but, owing to the Piqua Company being unable to run along a certain street, the lines have had to be changed, and necessitates the increase in the amount of the estimate. It is a pole line installation.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A. J.

Enclosure:

1883-12-17

December 17th. 3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 13th. inst., and beg to congratulate you upon having at last secured a lot at Middletown.

In regard to the new location saving considerable <sup>in</sup> conductors and feeders, we beg to remind you that we already have our copper at Middletown for the conductors and feeders, based upon the assumption that the lot given us in the first place was to be purchased. The new location changes the size of some of these ~~lines~~, but to what extent we cannot at the moment tell, but we are having the figures made up, and if they accept our contract price, I shall of course look to the Middletown Company to reimburse us.. We must protest against these lots being selected after our contracts are closed.

The outcome of the Piqua and Middletown business will be that we will have on our hands a lot of wire that we cannot use possibly for some months, which will necessitate our losing interest on the money invested in it, which is a considerable item.

In regard to the buildings at Piqua and Middletown, we would say that our engineer in computing the cost of the Middletown building calculated upon putting up a brick structure instead of

1883-12-17.

2

framo, as is mentioned in the estimate. It is our intention now to erect a brick building at Middletown, but the price we quote for the Piqua building is insufficient to admit of our adopting the same course there. We will erect a brick building at Piqua for the same price as we charge for the Middletown building, namely, \$2,310., or \$400. above the contract price.

In regard to the progress we are making in Penna., we beg to say that the Mt. Carmel building is finished, except the inside, the Bellefonte building is in the same condition and the Hazleton building will have its roof completed to-night. We have done quick work in these places, notwithstanding the fact that the local people appear to be unable to see it.

We will have an expert wireman in Bellefonte in the course of a few days.

You had better advise us by wire of your decision in connection with the brick building for Piqua.

Very truly yours,

Thomas A. Edison Conain. Dept.

By

T. A. E.

7883-12-17

December 17th,

3

M. G. Trumbane, Esq.

Easton, Penna.

Dear Sir:-

In relation to your postal card asking about my alleged electrified health indicator, I beg to inform you that I have no such invention, and that the device which is manufactured and sold as "The Edison Health Indicator" is, in my opinion a complete fraud.

Very truly yours,

S. Q. E.  
J

1883-12-17

December 17th. 3

James A. Blair, Esq.

Commercial Bank,

Tiffin, Ohio.

Dear Sir:-

We have your letter of November 30th., and in reply beg to say that we were quoted special rates over the Lackawanna Fast Freight Line to Tiffin, and these rates were obtained for us by our freight broker, who got quotations from the Star Union line, but as they were not as satisfactory as the former, we of course would not accept them. We would like very much to have been able to oblige you and ship our material by the Star Union line, and, at the time the subject was first brought up, we stated that if your Company would agree to pay the difference between the Star Union rate and the special rate quoted us by the Lackawanna Line, we would ship by the route you desired. You of course could not expect us to do more than this.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1893-12-17

December 17th; 3

Messrs. Bergmann & Co.

363 Avenue H, City.

Dear Sirs:-

We have your communication of the 15th, inst. in regard to sulphate of zinc.

In reply we beg to say that Messrs. Powers & Weightman furnish sulphate of zinc which is far superior to that which Mr. Chinnock purchases. Mr. Chinnock gets this material from Messrs. John & Pink. We ordered a large consignment of zinc from the latter people which has proved absolutely useless, as it contains a quantity of iron. It must be distinctly understood that you will buy from Messrs. Powers & Weightman the chemically pure brand and never change or try to get cheaper stuff, as the chemically pure brand is the only kind that we can use.

We do not wish to guarantee anything further than that we ourselves will purchase our sulphate of zinc from you, provided you keep as good a brand as can be gotten elsewhere. Furthermore, we will instruct all local companies to obtain this material from you, and such instructions will be sufficient for you to control the trade.

Please let us hear from you as soon as possible, and



1883-12-17

2

also inform us as to when we can place our first order with you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-17

Dec. 17th, 8

H. C. Bolknapp, Esq. Treas.

Edison Elec. Ill. Co.

Newburg, N. Y.

Dear Sir:-

Will you kindly let us know the exact condition of the Newburg building, we wish to approximate as closely as possible the time when we can send our wiring experts to commence work on the interior of the Station.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't,

Ny

*AOJ*

1893-12-17

December 17th.

3

Deutsche Edison Gesellschaft,

Berlin, Germany.

Dear Sir:-

I have your letter of the 3rd. inst., and in relation to dynamo Webeg to say that our Company here have stopped selling 25 light machines, as they find it does not pay to send a man a great distance and have him remain there some time.

The 50 light dynamo is the lowest they sell, and we are not going to make any more 25 light dynamos. The price charged you for the last 50 light dynamo sent, namely, \$250. F. O. B. New York, is the lowest figure I can place this machine at. It seems to me that you ought to be able to make them much cheaper over there.

In regard to our accounts, I mailed you a few days ago a statement showing your indebtedness to me to the extent of

\$2,590.95. Your remittance you mention in your letter of the 3rd. inst., namely, \$495. has not yet been received by me, but will I presume come to hand in a day or so. This leaves \$2,101.65 still due me by you, and I wish you would very kindly, upon receipt of this letter, send me a cable remittance for the amount, as the

prices which I gave on your material will not admit of my carrying  
the accounts so long on my books, and I require to use the money.

Very truly yours,

*206*

1883-12-17

December 17th. 3

W. L. Garrison, Esq. Treas.

Boston, Mass.

Dear Sir:-

Referring to our letter of the 5th. inst., with which we enclosed statement of account against your Company, will you very kindly send us a check for the amount, namely, \$1,827.42, as we require to use the money very urgently. We should like to receive this check before Friday next.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-17

December 17th. 3

Messrs. Harris & Robinson,

Hartford, Conn.

Dear Sirs:-

We have your letter of the 15th. inst., enclosing a notice of a meeting to be held in Danbury this evening. We trust you will advise us of the result of this meeting will have in connection with the acceptance of our estimate, as of course you understand that to-morrow it expires, and we would like to furnish you promptly with fresh estimates, providing you need them.

Yours truly,

Thomas A. Edison Constr. Dept.

By

A. O. J.

1883-12-17

December 17th.

3

M. S. Hastings, Esq. Treas.

Edison Electric Light Co.

City.

Dear Sir:-

Referring to the attached correspondence from Mr. Dwellley, we beg to say that 150 sixteen candle lamps would be plenty to send on to Fall River at the present time. If these local companies were permitted to do so they would put in sixteen candle lamps everywhere, whereas not one out of every ten could toll the difference between the ten and sixteen candle power lamp were they placed side by side. They should not be permitted to distribute sixteen candle power lamps over the Fall River system as they please, and we strongly advocate only supplying the consumers with a limited number.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*A. O. J.*

Enclosure.

1883-12-17

December 17th.

3

James Harris, Esq. Secty.

Hollefonte, Penna.

Dear Sir:-

We have your letter of the 14th. inst. in regard to a wireman, and in reply beg to say that we hope in a few days to have our expert at Hollefonte to take charge of this work. in the interim you might select a local plumber whom you think would be competent to take charge of this work, after being properly coached by our expert. This would avoid any delay in the selection of a man after our expert arrives in Hollefonte. We presume that you understand that it is our policy not to have the local company take any part whatever in the wiring of buildings for the Electric Light. The parties who have their buildings wired will be responsible for the cost of same to the plumber, whom our expert will teach to do the work. He will receive all necessary instructions so as to make a regular business of it, and by this means the local company will avoid any trouble with parties in connection with the non-payment of their bills for wiring and fixtures. This course we have adopted in other places, and our experience has been that it is the only proper method of conducting that branch of the business. Were the local company to



1883-12-17

2

do the wiring, after they had supplied the customer with light, in a great many cases, the said customer would refuse to pay his bill for wiring and fixtures, entertaining the idea that the local company would prefer retaining him as a consumer of light rather than take the fixtures out of his building.

In regard to lamps, we shipped your order on Saturday.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A.O.S.

1883-12-17

December 17th. 3

Charles P. Lyon, Esq .

New American Hotel,  
Circleville, Ohio.

Dear Sir:-

We have your letter of the 15th. inst., in regard to furnishing you local parties with information. We trust you will not attempt to quote any prices in regard to an electric light installation. It is impossible to approximate the cost of an installation in any town with safety, and we prefer our canvassers to discuss these subjects as little as possible.

We have pleasure in sending you by same mail the Bulletin you desire.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. T.

1883-12-17

December 17th. 3

Messrs. Markle & Hall,  
33 Congress Street, W,  
Detroit, Mich.

Dear Sirs:-

Under same cover we send you a map of Grand Haven, Mich. In addition to supplying us with information in accordance with the annexed form, will you be kind enough to examine carefully the course of our proposed street installation, which is shown on the map by red lines. If there are any obstructions, such as trees, telegraph or telephone poles, which would prevent our adopting the course we propose, we should be glad to have any suggestions you may think desirable to make in regard to alternatives. The red circle on the map shows that part of the town within which it is desirable to obtain a lot, and the best location is as near the center of the circle as possible.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1893-12-17

December 17th. 3

M. C. Holknap, Esq. Treas.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

Will you kindly let us know the exact condition of the Newburgh building, as we wish to approximate as closely as possible the time when we can commence work in the interior of the station.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A. O. J.

1883-12-17

December 17th.

3

W. A. Croffut, Esq.

359 West 23rd. Street, City.

Dear Sir:-

In relation to your communication of the 16th. inst.,  
I beg to say that Mr Edison leaves town to-morrow evening for  
Fall River. He may return the latter end of the week.

Very truly yours,

J. G.  
P. S. c

1893-12-15  
New York, December 18th. 1893.

*Bergmann*  
85 Fifth Avenue,

My Dear Insull:-

I should have written you last week, but I thought it better to wait until one Saturday had passed before doing so, in order that I might give you a history as to how I got through the "black day". On Saturday morning I had \$4,500. in the bank altogether. I went down to Hastings and got \$1,000. from him. Out of this I paid Kruesi \$1,000. and gave Bergmann \$700., as they were both very hard up. I paid the Machine Works pay-roll and contracts together with our office pay-roll, also met a Machine Works' note, and yesterday I was advised by the Germania that the \$3,000. note, which I got from Hastings last Friday, had been discounted by them, so on Monday morning I came out with \$4,348. in the bank, which will run me through all right this week.

Mr Edison went to Fall River to-night, and the station is to be started to-morrow, and that means a remittance of \$20,000. from them, Mr Edison will see that a check is sent to me promptly.

We closed the Williamsport business on Saturday last. As you understand we sent them the forms of agreement and one of those Mr Edison signed before it left the office. The Williamsport people closed the contract on the old basis, which was a point that Mr Edison desired to avoid. The new canvass which we prepared is ready, and they have a chart with the lines marked in accordance with this new map, and we are now trying to have

1883-12-18

than substitute it for the old one. The matter will be decided in a day or two, and also in a day or two they will remit us the first payment, which is a matter of about \$13,000.

Immediately after you left here, I wrote again to Lord for that remittance of \$5,000., and on Friday received a check from him for \$4,000., and he said he would remit the balance as soon as he got it.

I wrote to Garrison yesterday to send us a check for the \$1,800. still due upon Brockton, and hope to hear from him before Saturday.

I have to meet about \$4,300. on Saturday, but will have no trouble whatever in doing so, as prospects are good.

CANVASSERS. Dyer has completed his canvass of Galveston and is in Dallas, and from that point he goes to Sherman. Wilbur has completed Atlanta and is in Mobile, from which point he goes to Knoxville. Cooke is still with Markle & Hall, and Lyon is just about through with his canvass of Circleville, Ohio, after which he returns to Pennsylvania. I will see that your instructions as to the disposition of these canvassers after January 1st. are carried out. We certainly will require more help in this line.

There were some parties came up here from a town in Pennsylvania near Hazleton. Shaw had never been near the town, nor approached any of the people in regard to lighting. The gentlemen of whom I speak had been around visiting Shamokin and

1873-12-18

so I deposited it in the Germania, and taking the check payable to my order, signed by Mr. Edison, I went to Hastings, who very kindly allowed me to draw \$3,000, payable to the Edison Electric Light Co., and which he refunded me by giving me his checks for the amount required for the above purposes. I was still \$400. short, notwithstanding the fact that it was in the bank, and this \$400. was for Pruesi. Hastings could only let me have \$300., and he required \$700. in order to meet his payroll. I got Hastings to go to the Bank of the Metropolis with me where we saw the Manager, and we arranged with him that I should sign a check, "Thomas A. Edison, by A. O. Tate", for \$400., the Edison Electric Light Co. by Mr. Hastings to guarantee the ~~check~~ signature, and they would let me have the money. This I did and got through the day without any disastrous results more than a slight headache. In further discussion of money matters, you will no doubt recollect that the contract we made with the Fall River Company differs materially with any of our other contracts. The first payment in connection with this installation was ten per cent upon the signing of the agreement, twenty per cent on October 25th., twenty five per cent when the installation was ready to supply light and the remaining forty five per cent when the installation had been in condition to supply light thirty days. The above mentioned ten per cent, namely, \$4,180.00, was paid upon the signing of the agreement; about October 26th. two other payments of \$4,000. each were made by the Fall River Company, the same being the twenty per cent referred to, and on the 27th. November Dwoolley sent us his check for \$8,500.



1883-12-18

which was a portion of the twenty five per cent that should have been paid when the installation was ready to supply light.

I will receive from Dwelley to-morrow a check for \$4,000., and this is the only payment that will be made on account of this installation until the 16th. January, when there will be \$17,128.00 due. You see by the arrangement made with these people that the greater part of the money, instead of being paid in when the installation was ready to supply light, does not come to hand until we have run it for thirty days.

Now in regard to our contract with the Ansonia, we owe them on account of wire supplied for Fall River \$4,950.20, and seventy five per cent of that amount is \$3,718.05, which consumes the \$4,000. that will arrive to-morrow. I do not yet know the amount that the Williamsport people intend remitting. They owe us \$18,000., and I fancy it will be at least half of that.

I shall go to Hastings to-morrow and tell him that I want a good remittance on account of the Machine Works on Saturday, and that I simply must have it. I can pull through all right, but will have to give Babcock & Wilcox a note to-morrow for the amount due them.

I have a note due on the 12th. January for \$2,309., which is one we issued to Bergmann & Co. I have another on the 24th. for \$1,240., and there is nothing then until the 17th. February, at which time there is a small one for about \$520. If I bring t Babcock & Wilcox' note in about the 1st. February it will be all right, as at that time we will have been in receipt of the last payment on account of Fall River, and can meet it without trouble.

1883-12-18

Tiffin station will be ready to start up in about two weeks, which will remit a payment of \$9,000. from that source. MT. Carmel will be ready to start at almost the same time, so you see as long as Mr. Edison is within reach I will not get left in the money line. It will be a very frigid day when he leaves me in the same box as he did last Saturday, as I shall take care I have plenty of checks so long as there is money in the bank to sustain them.

On the 10th. inst. we billed ~~AM~~ the Societe Industrielle with \$787. for material shipped them, and they now owe us \$1,332.21. We billed the London Company with \$450.50 on the same date, which makes the amount due us by that corporation \$928.50. This information I believe you desired transmitted to you.

In regard to the Williamsport, I forgot to mention when speaking of it that we will not issue any orders in connection with that plant until the full amount of the first payment has been made. We have a full list of the stockholders, and are to-night going through Bradstreets to find out how they stand.

CANVASSERS? I think I told you in my last letter that Cooke had finished with Markle & Hall, but we were requested by them to allow him to remain a while longer in order to complete a canvass of Adrian, Mich. He will be through there to-morrow, and as the Light Company is anxious to have a report on Meriden, Conn., we will send him to that point, after which he can canvass Rondout and Kingston, N. Y. Lyon is at Pottsville, Penna. Dyer is on the point of leaving Dallas for Sherman, and Wilber is making a canvass of Knoxville, after which he goes to Danville, Va.

1883-12-18

MACHINE WORKS. It is pretty hard work to get Soldan to turn out machines quickly, but we must give him credit for having made a good shipment on Monday last. He forwarded the Bellefonte, Hazleton and Mt. Carmel machines on that date, which were two "Y's" each for the first and second places and two "S" machines for the last. The Newburgh machines go forward on Friday next. The Lawrence Company have ordered from us two more "H" machines and another 14<sup>1</sup>/<sub>2</sub> x 18 engine. The former were shipped to them on the 22nd inst. and the engine goes forward to-morrow, together with the bedplate and washers. The bolts are already in the foundations which Rich left prepared. I received to-day a letter from Lord, which, is to say the least amusing. You no doubt remember what a disjointed correspondent he is and that it is almost impossible to gather anything from his letters. He kept harping so long upon the string of "treat us fairly", that I at last wrote to him asking him to submit to us a statement of all the points wherein he considered we had failed to live up to our contract. In his letter received to-day he states that we must consider them (the Lawrence Co.) imbeciles, and complains about us having supplied him with 10" bolts, about the delay to his dynamos and the tardy manner in which his meters are being supplied. In reply to Mr. Lord, I informed him that we were using 10" bolts in the same connection with other installations, where they gave perfect satisfaction, and we saw no reason why they should not prove satisfactory at Lawrence. I stated that we sincerely regretted being unable to control Messrs. Bergmann & Co's affairs,

1893-12-18

and that we were doing all in our power to make them hurry forward his material. In connection with dynamo's, at the time he wrote his letter, which was on the 22nd. inst., there must have been one "S" machine at the Lawrence depot, as it was shipped from here on the 18th. inst. On the 17th. inst. he gave us an order for two "P" machines and they went forward on the 23rd. On the same date he ordered the large engine, and it goes to-morrow. We called his attention to these facts without commenting upon them, and in relation to his insolent remarks about competent parties managing the business at this end of the line, I stated that we would be greatly obliged if, in future, he would kindly suppress any suggestions in regard to the manner in which our business should be conducted. You cannot imagine what a "damned" impertinent letter he wrote. My reply is very mild and has not yet gone out of the office, and to-morrow I will show it to Mr. Edison. I made no further statements in it, except as detailed above, but if Mr. Edison considers this unnecessary, I will not send the letter. I wish you were here at the present time to reply to it.

In regard to Kruesi, he is as usual in a chronic state of "hard upness". The Illuminating Co. owes him about \$3,000., and he cannot "strike" them for a cent. I have had to carry him through ever since you left.

Last Saturday Hastings had to give Bergmann considerable money to help him out, but this Saturday I am going to make him give me a good payment, and also make a good payment to Kruesi.

We have heard nothing so far about the Danbury affair, and our estimate in that connection expired some days ago, and they have not asked us to make a new one. I see by the papers that about \$16,000. of the Danbury stock has been subscribed.

Perry came in to-night in regard to Mr. Hatchelor's stock, and he told me that he had been unable to do anything since you left, and I have embodied this in a cable to you.

I think I have exhausted all points of interest, except one, this point is our friend Mr. Gilmore. It is now only about ten o'clock, and notwithstanding the fact that he has had a regular "picnic" since you left, he is growling like a bear.

Trusting you are enjoying yourself, I am,

Very truly yours,

A. M.

1883-12-18

Piqua

Dec. 18th,

3

A. Stuart, Esq. Sec.,  
Edison Installation Co.,  
Cinn. Ohio.

Dear Sir:-

We beg to enclose herewith form of agreement in duplicate, for the installation of the Piqua plant, in accordance with our estimate No. 45F, and the accompanying exhibit marked "B" showing the course of the conductors, and which is a duplicate of the map that was furnished you at the time the estimate above mentioned was submitted and accepted.

In regard to the communication which we have received recently, stating that it will be impracticable for us to run along Main St., we would say that the necessity of making this change in the course of our conductors, will increase the cost of the Piqua installation by \$2,752. For this reason we send you herewith two more forms of agreement, for the installation of a 500 light plant amounting to \$18,631.49 together with map marked "C" and showing the course of the conductors which are so arranged as to avoid running along Main St.

1883-12-18

2

In relation to the latter chart we would call your attention to the fact that it includes 150 lights, more than the old one, the average burning of the Piqua installation is at least 4 hours. If you sell light in Piqua for 1 cent, those extra 150 lights will themselves bring you in a dividend of \$2390.62 for the first year, which is within a small amount of the cost of installing them. If it is your intention to sell light for 1 instead of 1 per hour, those 150 lights would bring you in a dividend for the first year of \$2,908.73 or \$117 in excess of the cost of their installation.

If after considering the above facts you desire to accept our bid, in accordance with the map marked "C" which is the one including the lights above referred to, please have executed the forms of agreement sent you herewith, and specifying the amount of the contract, which is \$16,031.40. Also please be kind enough to send us a check for \$608 which is 25 per cent. of the amount of the increase.

The Piqua Co. of course understand that in any event, we look to them to obtain for us the necessary permits to run our conductors in accordance with whichever chart they accept, and we do not hold ourselves responsible for any failure to obtain such permits that would prevent our erecting poles, and running lines.

1883-12-18

3

In relation to these matters we shall be glad to hear from  
you at the earliest possible moment, as we desire to order for-  
ward the additional wire if our chart "C" is accepted.

Very Truly Yours,

J. A. E.



1883-12-19

Piqua

December 18th.

3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We beg to acknowledge receipt of your telegram of the 18th inst. instructing us to put in a brick building at Piqua and accepting our price, namely, \$2,210., or \$800. over and above the contract.

We have given instructions to have the work done accordingly.

Yours truly,

Thomas A. Edison Constn. Dept.

By *A. P. T.*

1883-12-19

Electric Pen

December 16th. 3

John Ott, Esq.

292 Avenue B, City.

Dear Sir:-

Please make up about two gallons of the duplicating  
ink, and notify us when it is ready.

Yours truly,

John  
J

1883-12-19

December 18th. 3

H. O. Stratton, Esq.

35 Oliver Street,

Boston, Mass.

Dear Sir:-

Thank you for your letter of the 13th. inst., and in reply  
beg to express my regret at having overlooked your former letter.

The duplicating ink is being prepared, and will be sent  
you in the course of a few days.

Very truly yours,

*J. H. S.*

1883-12-19

December 19th, 1883.

Gustav Soldan, Esq. Supt.

104 Coorck Street, City.

Dear Sir:-

Below we give you a list of the machines we desire to have shipped on the days specified:-

Two "H" Machines on the 24th. prox. and two "Y" machines on the 24th. prox. to Newburgh, N.Y.

Two "Y" machines on the 24th. prox. to Bellefonte, Penna.

Two "Y" machines to Hazleton, Penna. on the 24th. prox.

Two "S" machines to Mt. Carmel, Penna. on the 24th. prox.

These machines must be shipped absolutely on the dates named, and if there is any delay in the Testing Department, we wish you to report it at once to us and we will have it remedied. Unless these dynamos go on the date specified we will be seriously delayed in our work, and you must do everything in your power to have them forwarded in accordance with the above.

We send you an order to-day to ship two "H" machines to Lawrence. These should be forwarded on Saturday next the 22nd. prox.

Yours truly,

The Edison Machines Works,

By

*Sale*

1883-12-19

December 18th. -3

Spencer Gordon, Esq.

P. O. Box 3,311,

Boston, Mass.

Dear Sir:-

In relation to real estate in Portland, we beg to say that if it is possible to obtain options in the blocks bounded by Brown & Elm Streets on the one side and Cumberland and Congress Streets on the other it would make a considerable saving in the amount of copper to be used. A lot in the block bounded by Brown, Cumberland, Probol and Congress Streets would be preferable.

We will forward the Portland estimates upon the assumption that the central station will be placed upon one of the lots selected from those already submitted, but if we can obtain a lot within the area mentioned above it will make a great saving.

Very truly yours,

Thomas A. Edison Conatn. Dept.

By 

1813-12-19

December 19th. 3

Garant C. Sims, Esq.

Providence, R. I.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 18th. inst. in reference to the valves of the 14<sup>1</sup>/<sub>2</sub> x 13 engines being bored for five inch steam pipe.

We also note your remarks in reference to our Piqua and Middletown engines.

We will send you by to-morrow's mail a list showing the dates we desire the engines you have under construction for us shipped.

Many thanks for your statement in regard to caulking a boiler, also about the load of your engines. Do you consider it necessary for us to carry a spare wrist pin strap and bearings for each one of your engines that we have installed at any station.

Very truly yours,

Thomas A. Edison Const. Dept.

By *W. A. G.*

1893-12-19

December 19th, 1893.

Gustav Soldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

Are you doing anything about paper belts? Please send  
us the address of the party from whom you got the sample pulley  
for test.

Yours truly,

The Edison Machine Works.

By

J. A. E.  
J.

1883-12-19

December 19th. 3

W. D. Rich, Esq.

Waxton, Henna.

Dear Sir:-

We are in receipt of a letter from the Treasurer of the Lawrence Company stating that they want two more "H" machines and the other 14' 2 x 13 engine, specified in our contract with them.

Did you put in a foundation at Lawrence for this engine?

Yours truly,

Thomas A. Edison Constn. Dept.

By *AE*



1883-12-19

December 19th. 3

W. D. Rich, Esq.

Hamletton, Penna.

Dear Sir:-

We enclose herewith a number of recommendations from Mr. Garret Bogert who desires to obtain a situation with us setting up machinery. He has been connected with the Straight Line Engine Company, and he has some excellent testimonials. If you require the services of such a person, please let us know, and return the enclosed papers, obliging,

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

Enclosure, a.

1883-12-19

December 18th. 3

E. H. Ford, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In reply to your letter of the 15th. inst. we beg to say that the other "S" dynamo with the extra 10" pulley was shipped to you yesterday.

We have sent the 12" and 10" pulleys, because we think you will find it advisable to change after running the 10" pulleys for a time.

We can forward the two "H" machines early next week, and we have ordered the 14<sup>1</sup>/<sub>2</sub> x 13 engine, which we think can be supplied promptly, but in regard to this matter we will write you in a day or two.

Yours truly,

Thomas A. Edison Genl. Mgr.

By

*aes*

1883-12-19

December 10th. 3.

M. O. Polknap, Esq.,

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 17th inst., and in reply would say that the necessary services for Newburgh have gone forward.

Messrs. Bergmann & Co. will give you prices for sockets and fixtures.

In regard to house wiring, we would impress upon you the fact that it is very unwise for your Company to have anything whatever to do with this kind of work. When you are ready to have house wiring done we can send an expert to Newburgh, who will teach a local plumber or some such suitable person how to do it.

Our experience has been that if the local company takes in hand such work as this the parties who have the wiring done will not, in a great many cases, pay their bills for wiring <sup>before</sup> ~~until~~ after the light has been furnished, and then <sup>they will</sup> raise numerous objections to paying these bills, entertaining the idea that the company would prefer retaining them as consumers and allow the bill to go unpaid, rather than take the fixtures away from them. If, on the other hand, those parties are responsible for the amount of their

1883-12-19

2

wiring bills to some person who has no connection with your Company whatever, except having your approval to do this kind of work, it will be impossible for the consumer to enter into a discussion with your Company as to the payment of their wiring bills.

We advocate this course as a protection to your Company, and would strongly advise your adopting it, inasmuch as it has been perfectly successful in other places, and in two or three towns where the local companies disregarded our advice on this subject, they have had trouble in the manner herein set forth.

As soon as you have applicants enough to warrant our sending on a man there, we will do so.

Yours truly,

Thomas A. Edison Constn. Dept.

Ny.

*as*

1883-12-19

December 18th. 3

Messrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

We have your letter of yesterday's date in relation to the charge we made against your Wiring Department of \$302.34 for work ordered at Shumokin by your wireman, Mr. Johnson, and also comprising certain charges which the Shumokin Company deducted from our contract for the non-performance of work, in connection with the erection of pole lines.

We have read with interest your letter to the Shumokin Company, and we cannot suggest any other way in which the matter can be discussed. We did not send you a bill for \$302. in order to effect a compromise, but we consider that, in order to make an equitable division of the loss sustained by us all on this plant, we are perfectly justified in asking you to bare that portion which directly concerns your work at that point. We have forwarded your letter to the Shumokin Company, and we have no comments to make upon any discussion you may have with them, but our loss on our own work has been so very heavy in connection with this installation that we cannot consider any proposition which will have in view the placing to our credit of a less amount than \$302.34, in accordance with the bill sent you on the November

1883-12-19

2

20th.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*aos*

we have  
nish goods to the Swiss Company, in ac-

1883-12-19

Dec. 19th,

3

Messrs. Borgmann & Co.

292 Ave. B. City.

Dear Sir:-

Replying to your letter of the 12th, inst. in regard  
to discounts for <sup>Mr. Gaura</sup> ~~the~~ ~~Swiss~~ Co., we beg to say that on Sept. 10th,  
~~we~~ <sup>we</sup> wrote these people telling them you would agree to fur-  
nish goods in your Catalogue to them at 30 per cent discount,  
excepting Sockets, Cut-Outs, and Switches, and on these as an  
extra inducement, we informed them, you would agree to give a  
discount of 32 per cent. We informed them that your charges  
for boxing and cartage on same, would be extra. These proposals  
we extracted from a letter which you sent us, agreeing to fur-  
nish goods to the Swiss Company, in accordance with the above.

Very Truly Yours,

J. A. E.

1893-12-19

December 19th. 3

C. H. Cooke, Esq.,

Cooke's Hotel,

Ann Arbor, Mich.

Dear Sir:-

We send you to-day a supply of canvassing blanks, which we desire you to use in future when submitting your canvass to this office.

When taking notes along the streets you may use a book, and during the day prepare these sheets, which are to be sent on here. We also send you herewith a sample sheet showing how these reports should be made out.

For your further information we will give you the following explanations:-

The column on the canvass sheet marked "Width in Feet" means width of building. Where buildings are isolated the distance between them should be passed as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass sheet. Every sheet must be numbered with the number of the block and the name of the street, and, when your canvass is completed, you should pin the four or more different



1883-12-19

2

sheets show <sup>map</sup> the four faces of each block, and then on a separate piece of paper make an index of the canvass in the follow manner:-

BLOCK.	PAGES.
1	1-2
2	3
3	4
4	5-11

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours truly,

Thomas A. Edison Constn. Dept.

By *Q. Q. J.*

Enclosure,

1883-12-19

December 18th. 3

Charles F. Lyon, Esq.  
New American Hotel,

Circleville, Ohio.

Dear Sir:-

In relation to your canvass of Wellsborough, Penna. you give the number of lights burning in the hotels by stating that they will average so many for so many hours. We desire that you shall give detailed specification of each light burning in the hotels, as we desire to know how many lights burn in the office, halls, dining room, kitchen, bar, and also the total number of rooms in the hotel, together with the actual number of hours each light burns in each separate room. This information we want in connection with every hall and building where there are any particulars to be given. We do not want you to give the average, as we prefer to obtain that ourselves from detailed information. We shall also be glad if you will discontinue to name the street lamps, as they are of no interest to us and only cause confusion in your canvass.

When you begin entering you canvass on the sheets which will be sent you to-day, please pin the four block faces comprising one block together and then make an index as follows:-

1883-12-19

BLOCK.

1

2

3

2

PAGES.

1--2

3

4--5

Please make any remarks in the "Remark Column" in black ink, except for trees, which you had better make in red ink.

We trust you will pay particular attention to the instructions given you within, as any deviation from the rules we set forth will cause great confusion and delay in our Map Department, which we particularly desire to avoid.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*adg*

1883-12-19

December 19th. 3

T. M. Teall, Esq.

Syracuse, N. Y.

Dear Sir:-

By same mail we send you a map of Syracuse, N. Y., and in addition to supplying us with the information in accordance with the attached form, will you kindly look carefully over the course of our conductors, as we propose running them, and let us know if there are any obstacles, such as high trees, telephone or telegraph poles, which would prevent our running along any point where the red lines are marked on the map.

In regard to a lot for central station purposes, any kind of a lot whatever will do us as long as it is large enough, and which point will be determined after you submit your report on options. As long as we can have run to put our plant in, it does not matter in the least whether the lot is on an alley, and we would prefer a location which is not conspicuous as near the center of the circle as possible.

In regard to these matters, please let us hear from you at the earliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*Aos*

1883-12-19

December 18th. 3

G. W. Wilbur, Esq.

Post Office,

Knoxville, Tenn.

Dear Sir:-

In your canvass of Atlanta you have omitted to class on about one third of the dwellings. This appears to be a common occurrence with you, and we trust in future these details will not be overlooked, as they cause great confusion and necessitate our having to guess at information which should be reported to us by our canvassers.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-19

December 19th. 3

I. G. Walker, Esq.

care Judge J. F. Bunn,  
Tiffin, Ohio.

Dear Sir:-

We have your telegram stating that you will not be ready to leave Tiffin until after January 1st., and in reply we beg to say that your statements are rather misleading.

We have a letter from you dated the 13th. inst., in which you inform us that in your opinion at the present time it would be well to turn the work over to Messrs. Baxter & Brown. If the present time is as good as any, we want you to turn the work over immediately and go to Bellefonte, Penna. It is our aim to keep you in one point as short a time as possible compatible with the efficient teaching of the parties who are to perform the work after your departure. Please let us have an explanation as to how the matter really does stand.

In regard to your orders for material, inasmuch as we do not look to you for the payment of our bills, and as the material is ordered on account of the Tiffin Company, before we can supply it we must have an official order from an Officer of the said corporation.

We have written Judge Bunn in regard to the lamps he

1883-12-19

December 10th.

2

desires sent to Tiffin, and when we receive the proper authority for making the shipment, we will immediately have them forwarded.

Kindly let us hear from you as soon as possible in relation to handing over the Tiffin work.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1893-12-19

December 18th. 3

Western Edison Light Co.

Chicago, Ills.

Dear Sirs:-

In relation to the attached correspondence, we are informed by Mr. Hutchinson, the Secretary of the Isolated Company, that these meters are for you. They have apparently been consigned to the Edison Company, 104 Dearborn Street. We have received no communication from you as to what they are for or why the shipment was made, and we await further particulars.

Yours truly,

Thomas A. Edison Constn. Dept.

by

A. A. S.

Enclosured.



Dec. 1927,

3

G. W. Kilber, Esq.

P. O. Knoxville, Tenn.

Dear Sir:-

We send you to day a supply of canvassing blanks, which we desire you to use in future when submitting your canvass to this office.

When taking notes along the streets you may use a book, and during the day prepare these sheets, which are to be sent on here. We also send you herewith a sample sheet showing how these reports should be made out.

For further information we will give you the following explanations:-

The column on the canvass sheet marked "Width in Feet" means width of building. Where buildings are isolated the distance between them should be paced as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass sheet. Every sheet must be numbered with the number of the block and the name of the street, and, when your canvass is completed, you should pin the four or more different

sheets showing the for faces of each block, and then on a separate piece of paper make an index of the canvass in the following manner:-

## BLOCK.

## PAGES.

1

1--2

2

3

3

4

4

5--6

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours Truly,

Thomas A. Edison, Constn. Dep't.

By *AEJ*

Enclosure.

Meters

1883-12-20

Dec. 20th,

3

W. S. Andrews, Esq.

Chief Elec. Engineer,

P. O. Box, 865 Fall River.

Mass.

Dear Sir:-

Will you please let us know how the meters for Newburg, Bellefonte, Piqua, Middletown, Mt. Carmel and Hazelton are to be standardised, whether the "A" or the "B" meter, and oblige.

Very Truly Yours,

Edison Machine Works.

By

*as*

1883-12-20

December 20th. 3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Could you very kindly send about 10 lbs. of sulphate of zinc to the Edison Electric Illuminating Company, Fall River, Mass. We ordered 300 lbs. of this from Mr White, but up to this writing he has not supplied it, and we have had so much difficulty with bad material that we are afraid to send anything that we are not absolutely sure of. Mr Edison is in Fall River at the present moment, and has telegraphed for this sulphate of zinc, and you would confer a very great favor upon us if you would express it to-day. Furthermore, if you could send on a couple of ounces of marine glue we should be deeply indebted. We have ordered some of this to be expressed from Messrs. Eimer & Amend, but inasmuch as a quantity which they sent to Lawrence sometime ago proved to be useless, we wish if possible to guard against the same mishap at Fall River. We are making arrangements to have this glue prepared at the Testing Room.

We regret exceedingly to be obliged to trouble you, as we fear you will consider that we are imposing upon good nature, but under the circumstances you are the only person to whom we can

1883-12-20

December 20th. 8

appeal to help us out of this trouble.

Yours very truly,

Thomas A. Edison Constn. Dept.

By 

1883-12-20

Dec. 20th,

M. C. Holknap, Esq. Sec.

Edison Elec. Ill. Co.

Newburg, N. Y.

Dear Sir:-

We beg to acknowledge with thanks your letter of the 10th inst., and wish you would be kind enough to notify us immediately the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't.

By

*T. A. Edison*

1883-12-20

Dec. 20th, 3-

W. S. Andrews, Esq.

P. O. Box, 565 Fall River,

Mass.

Dear Sir:-

We send you herewith blue print, of the Williamsport station. Please advise us of electrical material as soon as possible.

Very Truly Yours,

THOMAS A. Edison, Constr. Dep't.

By

A. O. J.

1893-12-20

Dec. 20th, 3

W. D. Rich, Esq.

Hazleton, Pa.

Dear Sir:-

We are to day in receipt of a letter from the secretary of the Newburg Co., in which he states provided they have favorable weather, the walls will be up and ready for the roof timbers in eight days. We have requested these gentlemen to advise us as soon as the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constr. Dep't.

By

*Aoy*



1893-12-21

December 21st.

3

Messrs. Bergmann & Co.

203 Avenue H, City.

Dear Sirs:-

We are this morning in receipt of a letter from Mr. Edison dated Fall River, and in it he asks us to instruct you to be sure that two lamps with wire in center of them go with each indicator you send out, also that two feet of 1000 platinum iridium wire go also with each indicator extra. Mr. Edison states further that three of the spirit levels on the pressure indicators you sent to Fall River have the bubbles so long that they are utterly useless, and he complains very bitterly of your neglect in not having this work inspected before it goes out; he also says that one of the new field regulators there has a wrong number of blocks.

Kindly give those matters your attention.

Yours truly,

Thomas A. Edison Consul, Dept.

By

*W. C. C.*

1883-12-21

December 21st, 83

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have your letter of the 20th. inst., in reference to advising you about shipments of material, and in future will see that you are promptly notified when any consignments are made.

Yours truly,

Thomas A. Edison Const. Dept.

By

*AOY*

1883-12-21

December 21st, 3

Messrs. Waterhouse, Winterbotham & Harrison,  
1, New Court, Carey Street,  
Lincoln's Inn, W. C.  
London, England.

Dear Sirs:-

I have your letter of the 4th. inst., together with  
instrument appointing Messrs. Theodore Waterhouse, William Howard  
Winterbotham and Richard Lake Harrison my Powers of Attorney.

I have signed same, had it duly attested by a Notary,  
and also had attached to it the certificate of the English Consul  
General, and return the same by this mail, under separate cover.

Yours very truly,

*W. H. G.*

1883-12-24

December 24th, 1883.

Gustav Seldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

In reply to your letter of the 21st. inst. I beg to say that it is my opinion that you had better get a blower. Have you not got one at the Works which will answer? We use a blower at the Pearl Street station.

I return herewith ~~the~~ ~~your~~ letter to you.

Yours truly,

The Edison Machine Works,

By

J. A. E.  
J

Enclosure, C1

1883-12-24

December 24th. 1883.

Messrs. Macpherson, Willard & Co.

Bordentown, N.J.

Dear Sirs:-

We have a letter from our Superintendent, Mr. Soldan, in which he complains of the very slow manner in which you deliver castings to the Machine Works. Could you not arrange to deliver these more promptly, as the non-receipt of them holds back our central station work, and imposes upon us the necessity of carrying a lot of goods which we could otherwise dispose of.

Yours truly,

The Edison Machine Works,

By

Yas

1883-12-24

December 24th. 3

Frank B. Mac, Esq.

care Commercial Telegram Co.

18 Broadway, City.

Dear Sir:-

We have your letter of the 19th. inst. confirming your acceptance of our offer of seventeen cents a pound for 1,900 lbs. of copper wire, which please be kind enough to ship to Thomas A. Edison, 293 Avenue B, City.

We will pay you ten cents per pound for couplings.

Please advise us if you accept this.

Yours truly,

Thomas A. Edison Constr. Dept.

By

*AOJ*

1883-12-24

December 24th. 3

W. D. Rich, Esq.

Bellefonte, Penna.

Dear Sir:-

We send you to-night under separate cover blue prints of  
Mt. Carmel, Bellefonte and Hazleton, which are to be used by the  
wiremen who have charge of the erection of the pole lines.

All information necessary for these parties to have will be found  
attached to the charts.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. J. M.*

1883-12-24

December 24th, 1883

M. H. Pofinger, Esq. Pres.

American District Telegraph Co.

New Orleans, La.

Dear Sir:-

In regard to the map of New Orleans, sent you under separate cover this date, in addition to supplying us with the information in accordance with the attached form, will you kindly examine the course of our proposed street installation and let us know if there are any alterations in same which, in your opinion, it would be desirable to make, and very much oblige,

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.



1883-12-24

December 24th. 3

George D. Beryemin, Esq.

Dixon, Ills.

Dear Sir:-

I have your letter of the 13th, inst. in reference to utilizing electricity for wood cutting, and in reply I beg to say that this experiments has several times been tried, but the idea has been abandoned, as the carbon of the wood rots the platina.

Very truly yours,

J. A. E.

1853-12-24

December 24th. -3

George H. Bliss, Esq.

Chicago, Ills.

Dear Sir:-

We have your letter of the 19th. inst. in reference to  
an amperre indicator, and consider it advisable for you to use one.  
Messrs. Hermann & Co. make them, and you should order one to show  
load, and graduate it from zero to 275 amperes.

Yours truly,

Sa E  
J

1883-12-24

Dec. 24th,

3.

Henry C. McCormick, Esq. Pres.

Williamsport, Penna.

Dear Sir:-

We have your letter of the 18th inst. in reference to our map submitted to you by Dr. T. G. Detwiler having been accepted as the Exhibit "A" referred to in the contract between us, and we beg herewith to confirm our approval of same.

The map as you state shows the lines as running eastwardly to Penn Street, northwardly to Fifth Street, westwardly to the alley between Grace and Edwin Streets and parallel to Campbell and Walnut Streets, and southwardly along First alley south of Market Square from William Street to Academy Street.

In relation to this contract, we are still waiting to receive from you the first payment of twenty five per cent of the amount of the same, and which first payment is \$18,300.44. We have all our orders for material ready to send out, but until we receive the above remittance from you we will be unable to do anything in regard to forwarding the necessary material to commence work, inasmuch as we have to pay a certain percentage on the greater part of our orders at the time they are submitted for execution.

Very Truly Yours,

7a E Cash Dept  
205

1883-12-24

December 24th. 8

W. H. Dwoley, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

I understand that the engineer allowed the wrist pin  
of the engine to get hot and you had to shut down. This is pure  
carelessness, no matter what the engineer says.

Yours truly,

Dau

1893-12-24 1

December 24th. 3

H. M. Doubleday, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

Can you tell us how soon Fitch will be through with the work he is doing at Fall River? As soon as he is prepared to leave there, we should like him to come to New York, as we desire to secure his services in connection with other installations.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*AOY*

1883-12-24

December 24th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 20th. inst., and await the decision of the Aqua people in reference to the change of the pole lines at that place.

We have received a communication from Mr. Shaw in regard to brick buildings for future estimates, and will comply with your wishes.

Yours truly,

Thomas A. Edison Const. Dept.

by *A. O. J.*

1883-12-24

December 24<sup>th</sup>. 8

William Schwenk, Esq. Prost.

Mt. Carmel, Penna.

Dear Sir:-

Upon receipt of your letter of the 16th. inst. we wrote to Messrs. Bergmann & Co. to hurry forward your material, and they replied to us that they would use the utmost despatch.

In regard to a wiring export, our man will be there in the course of a week or two.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*all J*

1883-12-26

December 26th. 3

E. H. Lord, Esq. Towns.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 22nd. inst., and in reply beg to say that the other "S" machine was shipped to you on the 18th. inst., and we wired you to that effect.

In regard to the belts you are using in Lawrence, we would call your attention to the fact that we are using 10" belts in the same connection at other places and they are giving perfect satisfaction. We therefore see no reason why they should not prove satisfactory at Lawrence.

On the 15th. inst. you asked us to supply you with two more "H" dynamos, and they were shipped on the 22nd., for which we enclose bills of lading. You also asked us for another 14" x 13 engine, and this will be forwarded either to-morrow or the next day, also the bedplate and washers.

We instructed Messrs. Bergmann & Co. to send you some of the new indicators on the 17th. of the present month, which was the earliest date we could issue such an order, on account of the appliances not having been completed until a few days prior to same. We regret that we have not sufficient control over Messrs. Bergmann & Co's affairs to insure more prompt delivery of orders



1883-12-26

2

placed with them on your account.

We are sorry you considered it necessary to write us in such a tone as that embodied in your communication of the 22nd. inst., and we shall be obliged if, in future, you will kindly suppress any suggestions as to the management of our affairs.

We are doing all we possibly can for you and we do not feel that you are justified in writing us letters of this nature.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Tak*

Enclosure, d.

1883-12-26

New York, December 26th, 1883.

65 Fifth Avenue,

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

My Dear Insull:-

We have been daily expecting an autograph communication from you, but up to the present time the only thing which has come to hand is a cablegram, from which we have ascertained that you are sojourning in Paris.

In relation to the letter which you wrote going down the Bay for Major Eaton, I enclose herewith copy of a communication we received from him in reply to the one you sent him. We have done nothing whatever in the matter and are holding it until you return.

The Fall River station was started very successfully on the 14th. inst., and has been running very smoothly ever since.

Andrews and Conant went to Tiffin to-night to commence work there on the inside of the station. Mt. Carmel is ready to be wired, and Bellefonte and Harleton will be ready on the 1st. January.

In my last letter I told you that the Williamsport contract had been closed, but that the street installation was under consideration. That Company have agreed to accept our map in accordance with the new canvass and last determination. This determination is a much cheaper one than the old one, notwithstanding the fact that we included about 2,000 feet more mains.

1893-12-26

The above Company have not yet paid the first instalment on account of their contract, but I am to-night in receipt of a telegram from them in which they state that the money has not all been paid in, but that they will send a check to-morrow or Friday for a portion of it.

In regard to finances, possibly a history of the way I had to "skin" through on Saturday last will interest you. When Mr Edison left here on Tuesday he promised me he would be back Friday night. I have tried to impress him as much as possible with the necessity of being here to sign payroll checks, and he seemed to take it all in. I got three checks from him on the Germania payable to my order, and feeling confident that he would return I disposed of two of them, in fact I had to dispose of these as the payments were necessary, one on account of the Machine Works and the other for Lruosi, who is frightfully hard up. Saturday morning just about when I was expecting Mr Edison to arrive and opening my mail you can imagine my horror upon receiving a note from him dated Fall River saying that the snap was booming, that he was going up to Haverhill to try and close that up and would not be back until Sunday. I had about \$2,400. In the Germania I only had \$2,000., I had a check for \$1,300. for the Machine Works which I could not deposit, as I have no power in that connection with these Works; and in the Bank of the Metropolis I had about \$1,000. I stood the shock with Christian fortitude and bravely went for the mail again, where I came across a check for \$1,000. sent most unexpectedly by Garrison in part payment of the Brockton extras. This check was for Thomas A. Edison,

Sunbury, and wanted us to close a contract with them without having a canvass made, and in fact without ever having before seen a representative of the Edison Electric Light Company. The same thing is reported from Circleville, where the people say that they cannot wait for a canvass to be made and want us to go ahead and put the light in without it. You see that the "snap" is going to "boom" tremendously next year.

Mt. Edison has gone up a point and reached my figures, and is now firmly of the opinion that we will do \$3,000,000. worth of work during 1884.

STATIONS. Tiffin station is ready for the wiremen to go to work on the inside, and Andrews will have his men there in a few days. The pole lines are all completed, and Hibler goes to Bellefonte to put up the lines there immediately. The Mt. Carmel building is completed, and the machinery is being set. Bellefonte is in the same condition and the Hazleton building had the roof completed to-night. Rich has got a good man for pole line work at Mt. Carmel, and we will not be delayed in this matter at all. The Middletown building is in the course of erection. You will remember, no doubt, that the amount allowed for this building in the estimate was \$2,210., and the estimate stated that it was to be a frame structure. When Rich was here, on Sunday last, I discussed the point with him, and decided that on account of brick being so cheap at Middletown, it would create a much better impression if we were to erect a building of this material, and I

1883-12-26

gave Rich instructions to this end.

I had a letter from Shaw asking us to put up a brick building at Piqua. The amount allowed in the estimate for this building was only \$1,350., and it was to be the same size as the Middletown building. I wired Shaw that we would erect a brick building at Middletown, and that we would put up a brick building at Piqua for \$2,210., the same price as the former. To-night I have a telegram from him accepting the figures, and I have wired Rich accordingly. The foundations of this building are being put in at the present time, and Rich says that there is a good margin on those figures.

Major Eaton sent up a letter from Mr. Hoffinger of New Orleans, and the prospects of closing this contract are excellent. They have over half the capital stock subscribed at the present time, and the affair is almost as good as settled.

St. Louis, from Brewster's report which the Major sent up to-day, looks a little "blue" again, but this will eventually go through.

In regard to the Danbury installation, you will recollect that this was one of the estimates which we made before we discovered that we were about five per cent out on our general expenses. The day after you left I asked Mr. Edison if it would not be a good idea to give Harris & Robinson six days to close out that business, and if they failed to do it in that time the estimate was to become void, and a fresh one substituted.

He approved of the suggestion, and to-morrow the Danbury estimate gives up the ghost. - They had a meeting in Danbury last night, the result of which, in connection with the acceptance of our estimate, has not yet been communicated to this office, but I do not anticipate the acceptance of it. I hope you will endorse this action, as, in my opinion, we have been working for love long enough and are ~~xxxxx~~ justified in taking the proper means to protect ourselves in the future.

Before you return we will have all the plants now under way running, I think, without any exception.

Everything has gone along without a hitch since your departure.

The shorthand man you engaged has turned out to be of no use, and I have arranged to get another man. I will have him properly broken in before you come back. He is to come at the same figure as the man who leaves is getting.

I cannot at the moment think of any other points of interest, but I will write you regularly now every few days, and keep you thoroughly posted as to what is going on.

Kruesi came to me the other day and took me into a corner very confidentially. I noticed that there were tears in his eyes and that he was very much agitated, and he asked me if I had ever been connected with any machine works, and upon informing him that I had, he wanted to know if patterns were regarded as an available asset!!!!

1883-12-26

G.

Trusting that you may have a very Merry Christmas and  
Happy New Year, which is stereotyped, but none the less sincerely,  
and also conveying the same wish from our friend Mr. Gilmore, who  
since you left has "kicked" like a mule against working on Sunday,  
believe me to be,

Very truly yours,

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

1883-12-26.

December 26th.

Spencer Horden, Esq.

P. O. Box 3311,

Boston, Mass?

Dear Sir:-

I have your letter of the 24th. inst. in regard to  
Mr. Bancroft, and in reply beg to say that I have written to that  
gentleman complimenting him on the able manner in which he per-  
formed his work at North Adams.

Very truly yours,

*Yours*



1883-12-26

December 26th, 83

Messrs. Alden & Sterne,

2 West 14th. Street, City.

Dear Sirs:-

In reply to your communication of the 20th. inst. I beg to say that we had to find the lots to get up our specifications. The Company cannot do anything until the specifications and plans are ready, and this will take about two months.

Very truly yours,

*Saw*  
*J*

1883-12-26

December 26th. 3

W. S. Andrews, Esq.

Tiffin, Ohio.

Dear Sir:-

We are in receipt of a letter from Mr Rich in which he says that the Mt. Carmel station is ready for wiring, and that Hazleton and Bellefonte will be in condition for your men on the 1st. January.

You will have to make some pretty lively moves to take those all in on time.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*ae*

1883-1226

December 20th. 3

J. F. Rynn, Esq, V. P.

Tiffin, Ohio.

Dear Sir:-

We referred your letter of November 30th., in regard to the paragon cable, to Mr. Walker, and we have informed him that whenever parties are willing to take the risk as regards the wire being approved by the Underwriters it is all right to supply them with it. The advantages afforded by the use of this cable make it a much more desirable article than any other wire in practice at the present time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Ray*

1883-12-26

December 26th, 3

W. L. Garrison, Esq., Treas.

P. O. Box 3027,

Boston, Mass.

Dear Sir:-

In regard to a communication which we received from you some time ago in relation to a Cromwell Heat Controller, we referred the matter to our Superintendent, Mr. Rich, and in reply he states that the day before he left Fall River he received a letter from the Cromwell Bros. about the heat controller at Brockton, saying they were ready to take it out if it was not satisfactory, and if it was satisfactory they desired to be paid for it. Mr. Rich immediately wired Mr. Johns asking him if the heat controller had been tested, according to the agreement made with the Cromwell Bros., which agreement was to have the coal carefully weighed and they to fire the boiler one week and our engineer to fire it the next week, they to fire it the third week and our engineer the fourth week. Then the figures were to be submitted to us and, if it appeared that they had saved five per cent over the old style of damper, we were to take the controller and pay the amount, otherwise they were to remove it at once and put the brick work in as good condition as it was prior to the introduction of the heat apparatus.

Mr. Jenks replied that they had not weighed the coal, but that the engineer thought it saved fuel. Mr. Rich considered that such a test would not justify the purchase of the apparatus, notwithstanding the opinion of the engineer, as he had heard these party say previously that he had a very poor opinion of the damper, and stated that unless they could comply with the terms of the agreement he would not purchase the heat controller.

If the Cromwell Bros. still wish to fulfill the conditions of the contract, our Superintendent will receive their figures and give the matter due consideration.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AE*

1883-12-26.

Edison, T.A.

- Personal

December 20th. 3

D. W. Burrell, Esq.

Little Falls, N. Y.

Dear Sir:-

I have your letter of the 21st. inst. in regard to separating cream from milk, and in reply beg to say that I have not forgotten the matter, and just as soon as I get my electric light affairs in shape I am going to work up several industrial enterprises, of which this will be one.

Very truly yours,

Tah  
3

1883-12-26

December 26th, 1883.

Gustav Solder, Esq. Supt.

-104 Goerck Street, City.

Dear Sir:-

We enclose herewith a letter from Mr. Dwellley in reference to the Flint Mill installation.

Please have the switch board and belts he speaks of sent forward immediately, together with two more tracks of uniform size to correspond with those of the other "R" machines. This installation is an important one, as we expect more orders, providing it is satisfactory, and we wish you to pay particular attention to the statements and requests made by Mr. Dwellley in this letter.

Yours truly,

Thomas Edison Works,

By



Enclosure, s.

1883-12-26

*Patents*

December 26th. 8

R. Rogers, Secty. Pro Tem,

The Edison-Gower-Bell Telephone Co. of Europe, Ltd.

34 Walbrook Street,

London E. C. England.

Dear Sir:-

I have your letter of the 7th. inst., and in reply beg  
to say that I have sent you this day by registered mail my Italian  
Telephone Patent No. 9791, granted February 8th. 1878.

Please acknowledge receipt and oblige,

Very truly yours,

*Wm*



1883-12-26

December 26th. 3

George W. Wilber, Esq.

Post Office,

Knoxville, Tenn.

Dear Sir:-

We have your letter of the 23rd. inst., and in regard to the width of buildings we beg to say that the red figures in the model canvass sheet sent you represented the distance between isolated buildings.

In relation to trees, please give the number on each block face, and if evenly distributed, say so, and if not evenly distributed, merely mention the fact without giving the distance between each <sup>tree</sup> ~~tree~~. I.C.D. means "First Class Dwelling."

After yours and in your first canvass in accordance with the new process, we will be able to tell exactly upon what points you are deficient, and you will be immediately advised as to where corrections should be made.

We note your remarks in regard to the difficulty you have in obtaining money by check, and in future we will either send it by postal order or will telegraph it to you, waiving identification, which will obviate all difficulties. Each time you arrive in a new town,

Please wire us at once your hotel address. When you

1883-12-26

2

were in Mobile we had two or three telegrams returned to us with the statement that George W. Wilber was unknown in that city.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*aoq*

1883-12-26

December 26th. 3

W Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

In reply to your letter of the 16th. inst., wherein you referred to printed answers to questions on Meters &c., Mr. Edison states that he gave you a copy himself before the six copies were sent to Brockton. Mr. Edison states that he left Brockton before these latter copies arrived, and that he certainly gave you one and told you to mark your name in it. We wish you would make a thorough search for this, however, as it is very desirable that it should not fall into other hands than those of our electrical employees.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-26

December 26th. 3

W. L. Garrison, Esq. Treas.

P. O. Box 3027,

Boston, Mass.

Dear Sir:-

We beg to acknowledge with thanks receipt of your letter of the 21st. inst. enclosing check for \$1,000. on account.

We communicated with Mr. Jenks to-day in regard to the change you desire made at Brockton, specifying the material we propose to supply you with. Mr. Jenks will no doubt communicate with you on the subject.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-26

December 20th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 21st. inst., and in regard to the shipment of material in connection with the wiring of buildings if you intended Messrs. Baxter & Brown to pay for the material which was shipped to Tiffin, you should have instructed them to send us an order. We have no doubt that it would have been all right to ship the mater on your order, but we much prefer to have written authority from the parties who have to bear the expense of the material, which avoids any discussion that might take place as to who is responsible for ordering it.

We are very anxious that you should leave Tiffin as soon as possible, but on the other hand do not desire you to go to any other point until you consider Messrs. Baxter & Brown thoroughly competent to take full charge of the Tiffin work.

In regard to the new cable, where parties are willing to take the risk as regards insurance it is all right to supply them with it.

Yours truly,  
Thomas A. Edison Constr. Dept.  
By

*A. J.*

1883-12-26

December 26th. 3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In regard to a communication we received from you some time since, wherein you state that when you fed your boilers with cold water the steam was so damp that it would not do more than ~~more~~ half duty although the pressure remained the same, and wherein you claimed that the trouble was in connection with the injector connected with the boiler, we referred those statements to our Superintendent, Mr. Rich, and in reply he says that it is impossible for any injector to feed cold water into a boiler under a pressure of 190 heat, which is the lowest temperature, as indicated by the thermometer attached to the injector. He further states that the connection with the new boiler is made precisely at the same point as on the boiler which was first set, and that the real trouble is that the engineer carries the water too high in the steam drum. If he would adjust the injector so as to gauge a constant feed according to evaporation and not allow the water to rise above the second cock, you would find no cause for complaint, neither would there be any danger of bursting the cylinder heads or syphoning water from the boiler. Mr. Rich says that he is confident this is the trouble at Lawrence, as the same thing was met

1883-12-26

2

with at Brockton with the first engineer we employed there.

Our Superintendent will visit Lawrence shortly and explain these matters to you in person, and endeavor to adjust the difficulties with at the present time.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*A. E. S.*

1883-12-26

December 26th. 3

W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

Replying to your letter of the 21st. inst., we beg to say that when we submitted our bid for the change at Brockton, amounting to \$1,290., it was our intention to undertake to do the work in connection with making this change, except as regards alterations to the engine. We should, however, prefer you to do the work in connection with setting up the new machines, and beg to submit the following proposal:-

We will supply you with material as below at the prices named:

Two 400 light dynamos (10 candle power).....	\$ 1,067.50
Two belts for same.....	80.35
Two regulators for the above machines.....	115.00
Switches for same.....	13.00
Two double dynamo switches for changing circuits.....	49.40
Repairing 800 light machines.....	30.00
Total.....	\$ 1,952.01

We will take back from you, one 800 light dynamo and one belt, allowing you \$1,400. for the former and \$30. for the latter. This will leave an amount to be paid us of \$552.01



1893-12-26

December 20th.

2

You will do all work in connection with putting up these machines, pay expenses of boxing and shipping the machine and bolt returned to us.

Please let us know if this will be satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Aoy*

1883-12-26

December 26th. 3

Charles P. Lyon, Esq.

Post Office,

Pottsville, Penna.

Dear Sir:-

In reply to your letter of the 22nd. inst., we beg to say that we consider it advisable for you to obtain as much information as possible in regard to real estate for sale in the different towns you canvass. There are no regular report forms calculated to embody this information, and you can send it to us in a letter.

Yours truly,

Thomas A. Edison Consin. Dept.

By

*A. E. D.*

1883-12-26

December 26th. 3

Thomas M. Rightor, Esq. Treas.

Mt. Carmel, Penna.

Dear Sir:-

In reply to your letter of the 17th. inst., we beg to say that we will extend your lines from Fifth Street along the alley between Maple and Oak Streets to Sixth Street, in order to take in your house, without extra charge to your Company. This concession will cost us about \$100. more than we have allowed for in our contract, but inasmuch as you state Mr. Edison promised it, we will of course undertake to do the work.

In regard to running along Sixth Street instead of Fifth Street, this change would alter our electrical determination and would render useless the greater part of the wire we have shipped to Mt. Carmel. Your house can be taken in by a service from the entrance on Sixth Street to the alley between Maple and Oak Streets. It is impossible for us to make any other changes in this installation, and we trust you will be satisfied with the alterations made in accordance with this letter.

Please show this communication to Mr. Schwenk, and tell him that it answers his communication of the 17th. inst.

Very truly yours,

Thomas A. Edison Genl. Dept.

By

*A. A. J.*

1883-12-26

December 29th. 3

John M. Stewart, Esq.

2096 Third Avenue, City.

Dear Sir:-

In reply to your letter of the 19th. inst., I shall be glad to have you call at this office as early as possible, bringing with you any letters of recommendation which you may have.

Yours truly,

*John*

*J.*

1883-12-26

December 26th. 8

N. Y. Safety Steam Power Co.

30 Cortlandt Street, City.

Dear Sir:-

Will you please let us know the price, together with  
your best possible discount, for your vertical engine cylinder  
3 x 5, and designated in your catalogue of November, 1883, as  
figure No. 5. If we can make satisfactory arrangements with you  
in regard to prices we may adopt these engines in all our central  
stations, and will probably be able to place large orders with  
you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Wey*

1883-12-27

Dec. 27th.

3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

Referring to the amount of \$2,000 which is still outstanding on our books against your Company, we should very much to know what your intentions are as regards the settlement. You are no doubt aware that as far as we are concerned the Shamokin Installation, was financially a heavy failure, and in consideration of this fact, we are compelled to urge you to make a speedy settlement of the balance now due us. The date of the bill which was made out to your Company, specifying the material which had been supplied on account of the contract, is October 13th., and from that date we will charge you interest at the rate of 12 per cent per annum. We can assure you that this interest by no means compensates us for the loss we are sustaining through the tardiness of your Company. We turn our money so quickly that the principle yields much more by being in our hands, so that we can directly control it, than by being let out at any rate of interest, which it would appear reasonable to charge. We can assure you that it is as distasteful for us to have to remind you of this matter so often, as it is for you to re-

1893-12-27

Dec. 27th. 3

ceive our letters, at the same time we think that we are not being justly dealt with, when the affair is left dormant except at such times as it is brought directly to your attention by letters from this Office.

We trust you will therefore send us a check for the full amount upon receipt of this letter, together with \$50.00, which is the interest from the date of your bill, namely October 13th, to the present time, and which is charged to you at the rate above mentioned.

Very Truly Yours,

Wak

1883-12-27

Shamokin

Dec. 27th, 3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

In relation to the 150 temporary fixtures which you returned from Shamokin, and for which you desired us to give you credit, we beg to say that the amount charged you for these fixtures was 48 <sup>1</sup>/<sub>2</sub> cents each. We shall therefore have pleasure in allowing you the same rate, as the fixtures are in order and we can use them elsewhere.

In November we wrote you a letter in regard to our account, and some errors which were made therein, in connection with calculating the amount to be deducted for certain work which was not performed. By referring to the said letter, you will find that you credited your account with \$56.92 too much. The amount which we will allow you for 150 fixtures is \$72.75, and after deducting the overcharge referred to we will owe you \$15.83.

We wrote you to day in reference to the balance still due on your contract, and asking you to send us a check for \$2,050. If you will therefore make this check for \$2,034.17 it will square our accounts.

Very Truly Yours,

Gae.



1883-12-28

December 28th. 3

J. V. Kirby, Esq.

Essex House,

Salem, Mass.

Dear Sir:-

In reply to your letter of the 20th. inst., we beg to say that after you are through with the Lawrence company we can probably do something for you.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-28

December 28th. 3

John Mullen, Esq. Treas.

Shenokin, Ponna.

Dear Sir:-

I have your letter of the 26th. inst., and in reply  
beg to say that I do not quite understand the meaning of it.  
I have no stock in the Shenokin Company. There is a balance of  
\$2,000. due on our contract, and I have written Mr. Douty in rela-  
tion to it to-day.

Very truly yours,

*J. M.*  
*J*

1883-12-28

December 28th. 3

M. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In relation to your letter of the 15th. inst., wherein you asked us to supply you with two more "H" dynamos and another 14<sup>1</sup>/<sub>2</sub> x 18 engine, which necessitated the bedplate and washers, we presume the dynamos have been received in Lawrence, the bedplate and washers were shipped yesterday and the engine is being loaded to-day.

Will you be kind enough to send us your check for \$1,277.50, which is twenty five per cent of the amount of this order, and which should be paid to us upon the reception of your requisition, in accordance with the terms of our agreement.

The above amount is made up as follows:-

Two "H" dynamos.....\$ 3,000.

One 14<sup>1</sup>/<sub>2</sub> x 18 engine..... 2,000.

Bedplate and washers..... 70.

Will you not require some more electrical apparatus in connection with this addition to your station? Shall we get a

list of what is necessary from our Electrical Engineer, Mr. Andrews, or will you send us a requisition for what you want?

Yours truly,

*Jale*

1883-12-28

December 28th. 3

W. S. Andrews, Esq.

Tiffin, Ohio.

Dear Sir:-

We have received a telegram from the Secretary of the Tiffin Company in relation to services, and in reply to same we told him that Mr. Conant would give all necessary explanations as to how the customers are to be cut in. We have forwarded the wire for this purpose and if any other material is required wish you would be good enough to have the Company send us a requisition for it.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. M. Y.*

1883-12-28

December 28th. 3

H. Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have this morning received your letter of the 26th. inst.

The No. 85 copper wire you speak of will be expressed to-day or to-morrow.

In relation to drawing upon us, we beg to inform you that this is a privilege which we very rarely extend to our employees, and only in cases of absolute necessity do we allow them to make drafts on us for money. If you desire it we shall be glad to send you a check once a week for your salary and allowance, or at such intervals as you would prefer.

Mr. Andrews gave us a requisition for the material mentioned in your letter, and his request is having our attention.

We enclose herewith check to balance your account to date.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-28

December 28th. 3

W. L. Garrison, Esq. Treas.  
N. O. Box 3627,  
Boston, Mass.

Dear Sir:-

In accordance with your request we have pleasure in enclosing herewith a detailed statement of our account against you for \$1,170.42, which was the one you wanted us to itemize.

If you have any counter charges, we wish you would be kind enough to send us a statement of them at the earliest possible moment, as it is our desire to close this matter out and obtain whatever balance may be due us, as we wish to use the money. In accordance with the statement sent you you still owe us \$627.42

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. H.

Enclosure, b.

1883-12-28

December 28th. 3

James Harris, Esq. Secty.

Hallefonte, Panna.

Dear Sir:-

We have received your telegram of yesterday's date in regard to the Hallefonte street installation, and in which you state that the wires do not extend to Minn & Curtin Streets, as agreed with Mr. Shaw.

In reply we beg to say that we know nothing of Mr. Shaw's statements in connection with this matter. On the 2nd. November we sent Mr. Shaw a letter enclosing an estimate for the erection of an Edison Electric Light Central Station Plant of 500 lights capacity and amounting to \$14,741.00, together with the forms of agreement, map showing the proposed course of our conductors and plan of the general arrangement of the station we proposed erecting. We called Mr. Shaw's attention to the fact that there were 843 lights covered by our wires. The next day we got a telegram from Mr. Shaw asking what it would cost to increase this plant to 800 lights, and on November 5th. we wired him that to make a Hallefonte estimate for 800 lights capacity, instead of 500 lights capacity, would increase the figures sent him on the 2nd. November by \$2,310. This brought the amount of our estimate up to

1893-12-28

2

\$17,071.60 Your Company made some few deductions in the minor details of the estimate, which reduced it to \$10,507.27

You will see from this that the subject of the change in the street installation was not broached at all, and that the increased capacity of the station was made in view of the fact that there were 843 lights in the district, and that it would be advisable to take them all in.

We will send you to-morrow our figures for making the extension you desire, and if they are accepted we will have the material sent forward immediately.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*Talc*



1883-12-28

December 28th. 3

W. H. Qualley, Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your check for \$4,000. on account of the Fall River installation, and in reply to your letter under same cover, in which you say you had made the third payment, we would state that at the time the station was ready to supply light there was an amount of \$2,314.45 on account of the third payment due us, which was made up in the following manner:-

Ten per cent of the amount of our contract, namely, \$4,180.00, was paid upon the signing of the agreement; twenty per cent, namely, \$8,361.00, was to have been made on October 28th.; and twenty five per cent, namely, \$10,439.47, was to have been paid when the installation was ready to supply light. These payments aggregate \$23,995.48

The amounts received from you are, as stated in your letter, \$4,180.00, \$8,000. and \$8,500., making a total of \$20,680.00. This left a balance of \$2,314.45, which we mentioned above as being due us last week and it was this amount we had reference to when we telegraphed you.

1983-12-28

2

We are very much obliged for the check you sent us and  
have given you credit for same.

We return herewith receipt.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure, a.

1883-12-28

December 28th. 3

E. G. Acheson, Esq.

18 East Street,

Red Lion Square,

London, W. C. England.

Dear Sir:-

In reply to your letter of the 13th. inst., to hand to-day, I beg to say that we can give you a situation, but cannot at the moment say definitely what it will be, and if you come over it will be necessary for you to take whatever turns up.

Very truly yours,

*W. G. Acheson*  
7

December 30th, 3

E. H. Hubbard, Esq. Secty.  
Tiffin, Ohio.

Dear Sir:-

We have received your telegram of the 25th. inst.  
regarding the service wire, and in reply beg to say that Mr. Conant  
will give all explanations in relation to cutting in customers and  
the running of service wires, material for which purpose has been  
forwarded to Tiffin.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-28

December 28th, 8

W. D. Rich, Esq.

Hellefonte, Penna.

Dear Sir:-

In relation to the map sent you showing the course of the pole lines at Mt. Carmel, we beg to say that we have agreed to extend our line on Bear Alley from Fifth Street to Sixth Street. It will necessitate about four more poles and we have ordered forward the additional wire. We send you another map showing the extension referred to.

Yours truly,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-28

December 28th. 3

W. D. Rich, Esq.

Bellefonte, Penna.

Dear Sir:-

In reply to your letter of the 22nd. inst., wherein you make a sketch of the Bellefonte building, we beg to say that your arrangement is the only one which, under the circumstances, will answer, and we will alter our plans to conform therewith.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-28

December 28th. 8

Sidney H. Paine, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

In reply to your letter of the 27th. inst., we beg to say that an 800 to 1200 light plant, pole line, varies from \$23. to \$26. per light. This cost includes the running of the station for thirty days at our expense after same is ready to supply light. The machines which we would use in connection with a 1200 light plant would be two "Y" dynamos, which give 800 ton candle power lamps each, and one <sup>1</sup> 2 x 12 engine. You of course understand that it is difficult to approximate the cost of any plant, as there are such a variety of circumstances which cause the amount to vary.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*AOH*

1883-12-28

December 28th. 8

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We beg to inform you that we are still awaiting information in connection with real estate for Lima and Washington C. H., Ohio, Cynthiaana and Haysville, Ky. and Canton and Chillicothe, Ohio.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*ROY*



December 28, 1883-12-28

28

Societe d'Appareillage Electrique,  
Geneva, Switzerland,

Dear Sirs:-

Your letter of the 27th. October has remained unanswered until the present time in order that some new types of dynamos which I had under course of construction might be finished. This work has now been completed, and I have the pleasure to enclose herewith the report of our Mr. Clark, who is the Engineer of the Edison Electric Light Company, and which report will answer all the queries contained in your communication referred to.

The price of the new 200 light dynamo is \$725., F. O. B. New York, with regular winding, for higher volts probably be \$75., more each.

Trusting that this information will not arrive too late to be of service to you, I beg to remain,

Very Truly Yours,

JAE

Enclosure, 1.

1883-12-28

65 Fifth Avenue,

New York, December 28th, 1883.

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

My Dear Insull:-

In my letter of last evening I mentioned to you that we had a list of the stockholders in the Williamsport Co., and that we were going through Bradstreets to ascertain their standing. None of them are quoted. Shaw and young Detwiler were in here yesterday and told us that they were all professional men and were not given a rating. We find that P. E. Shaw, Dr. Detwiler and young Detwiler hold about one third of the stock. We are going to send Russell to Williamsport to find out all about this business, which looks very "fishy." They have not yet, as I stated in my letter, paid in ~~the~~ the first instalment, and in our opinion we think the intention of this Company is to scrape together twenty five per cent of the amount of our contract, after which nothing will be due us until the installation is ready to supply light. Upon our getting this far in the matter they imagine it will be impossible for us to withdraw, and they can make us carry it until they dispose of the large amount of stock held by the above mentioned trio. None of these three luminaries have one dollar to rub against another, and I think we are justified in drawing these conclusions in connection with their inco-

1883-12-28

2

tions. We have not sent out a single order yet, nor do we intend to until the matter has been thoroughly investigated and we feel perfectly satisfied that our money will be forthcoming when it is due.

Very truly yours,

*W. H. C.*

1893-12-29

December 28th. 3

A. A. Cowles, Esq. Sucty.

Ansonia Brass & Copper Co.

10 Cliff Street, City.

Dear Sir:-

Allow us to introduce to you Mr. C. F. Hanington, who  
was formerly one of the partners in our late Wiring Department.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*A. E. J.*

1883-12-31

December 31st. 3

K. S. Fissell, Esq.

2413 Prairie Avenue,  
Chicago, Ills.

Dear Sir:-

We have your letter of the 28th, inst., and in reply to your Par. 1, Q. 1. beg to say that we are daily expecting an answer from Mr. Shaw in regard to your assisting him in Penna.

In relation to your P. 2., we beg to say that the canvass of Knoxville has been completed, and we expect to receive it to-morrow.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-31

December 31st. 3

W. D. Rich, Esq.

Bellefonte, Penna.

Dear Sir:-

In reply to your letter of the 27th. inst., in relation to the injector at Tiffin, we beg to say that we have discontinued the use of exhaust injectors, and have adopted the "Porting" injector.

We will send you a supply of instruction cards, which you can distribute as you see fit.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Aoy*

1883-12-31

December 31st, 1883.

George W. Bliss, Esq. Gen'l. Supt.

Chicago, Ills.

Dear Sir:-

In reply to your letter of the 22nd inst., in which you state that you were furnished with "K" brushes with "C" dynamos, we beg to say that we use "K" brushes in the old style brushholders of the 25 and 50 light machines. We recently changed the brushholders on these machines and used "H" brushes in connection with them. It is now our intention to use double brushes on all machines.

When the dynamos you speak of were tested at our Works we had no trouble with the brushes or brushholders in question.

Very truly yours,

The Edison Machine Works,

By

*J. A. L.*

1893-12-31

December 31st. 3

W. H. Dwalley, Jr Esq. Treas.  
Fall River, Mass.

Dear Sir:-

In relation to exchanging the 8<sup>1</sup>/<sub>2</sub> x 10 engine at Fall River for a 12 x 12, we beg to say that we will supply you with material and labor as follows:-

One 12 x 12 engine.....	\$ 1,100.00
Foundation.....	94.30
Foundation cap and washers.....	31.88
Foundation bolts and pipe.....	<u>9.53</u>
Total.....	1,235.71

We will give you credit for the following material:-

One 8 <sup>1</sup> / <sub>2</sub> x 10 engine.....	\$ 250.00
Cap and washers.....	30.39
Bolts and pipe.....	<u>7.09</u>
Total.....	387.48

This makes the cost to you of the above change \$847.63, but in addition to this amount we shall ask you to pay the salary, expenses and railway fare of our man, whom it will be necessary to send to Fall River to do the work.

Will you kindly let us know if this will be satisfactory



1893-12-31

2

at the earliest possible moment, Armington & Sims having a great many orders booked, and we may have trouble in getting the 6<sup>1</sup>/<sub>2</sub> x 12 engine promptly, and the sooner we get our order in the better.

Very truly yours,

Thomas A. Edison Const. Dept.

By

*TAE*

1883-12-31

December 31st. 3

Winfield S. Hutchinson, Esq.,  
53 Devonshire Street,  
Boston, Mass.

Dear Sir:--

I have your letter of the 20th. inst. in relation to  
powers of attorney for Mr. Jose D. Husbands, and herewith I beg to  
enclose these documents properly executed.

Kindly acknowledge receipt and oblige,

Very truly yours,

*W. S. H.*

1883-12-31

December 31st, 1883.

J. S. & W. Pockham,

Utica, N.Y.

Dear Sirs:-

In relation to mica, we beg to say that we sent the samples your Mr. Pockham left at this office to the Superintendent of our Works, and had him weigh them, after which he cut them into sizes that he could use and weighed them again, so as to ascertain the cost of the mica to us properly cut. The result of the experiment has been that 30 cents per pound is too high a price for us to pay for mica, such as the sample sent us.

Very truly yours,

The Edison Machine Works,

By

*J. A. G.*

1883-12-31

December 31st, 1883.

Gustav Soldan, Esq. Supt.

104 George Street, City.

Dear Sir:-

In relation to paper pulleys, do you not think it would  
be a good idea for us to adopt them in future?

Yours truly,

The Edison Machine Works,

By

*A. J. [Signature]*

1883-12-31

December 31st. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Mr A. S. Hissell, who has lately been in Knoxville working up the interests of the Edison light at that point, requested us to write to you and ask you if he could in any way assist you with your work in Pennsylvania. We do not know whether you are acquainted with this gentleman or not, but if you desire any information in regard to him and his capabilities, no doubt Mr Hastings could give it to you.

Awaiting your reply, which Mr Hissell requests us to transmit to him, we are,

Very truly yours,

Thomas A. Edison Genl. Dept.

By

*Gay*

December 31st. 3

Messrs. Schwank, Esq. Prest.

Mt. Carmel, Penna.

Dear Sir:-

In reply to your letter of the 28th. inst., we beg to say that we will have our wireman at Mt. Carmel at the earliest possible moment. We have had to start so many stations all at once, and as expert help of this character is <sup>hard to</sup> obtain, it being necessary for us to educate all our electrical employees, that we are rather short of men, but we will delay the work at Mt. Carmel to as small an extent as practicable.

We wrote to Messrs. Bergmann & Co., asking them to hurry your material.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

1883-12-31

December 31st, 1913

James Harris, Esq. Secty.

Hellefonte, Penna.

Dear Sir:-

We have your letter of the 26th. inst., in which you state that there seems to be a misunderstanding in regard to what you are to receive under agreement for an 800 light plant.

In reply to your letter, we beg to enclose herewith six copies of the 500 and 800 light estimates. You will notice that in each case the amount for the street installation is exactly the same, namely, \$4,050.15, and the map showing the course of our street installation which was submitted with the 300 light estimate is exactly the same as the one submitted with the 800 light estimate. You will observe that the district in each case covers 848 lights, and we presumed that it was in order to take in all those lights that you requested us to submit an 800 light estimate, instead of a 500 light. The amount of the 300 light estimate is \$14,761.00; the amount we charged you for increasing the capacity of your plant to 800 lights, instead of 500 lights, was \$2,810. This brought the amount of the 800 light estimate up to \$17,071.00, but your Company deducted some of the smaller supplies, which they preferred purchasing themselves, which reduced the amount of the estimate to \$16,567.27

We are at a loss to understand your statement that your Company have never seen a copy of our 600 light estimate.

Mr. Shaw was given this estimate, and after the Bellefonte Company had made these deductions in the minor details, of which we have spoken, he had the estimate typewritten and returned to us, and we have this copy in the office.

The amount of the increase was for changes in the boiler, engine and dynamos, which all had to be of larger capacity, also for a larger building.

In connection with this building, after our contract was closed you desired it made larger still, and allowed us \$200. for extending it. This makes the amount of our contract with you \$10,767.27

We trust that as far as we are concerned this explanation will be satisfactory to you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *TAC*

Enclosure, c.



1883-12-31

December 31st, 1883.

Gustav Soldan, Esq. Supt.

104 Guerck Street, City.

Dear Sir:-

We have your letter of the 24th. inst. reporting test n  
on the special "Y" dynamo.

What I want to ascertain is the non-sparking point sharp-  
ly defined? With same amperes is the position of non-sparking  
point the same and does the brush have to be adjusted finer to  
obtain non-sparking point?

Also please let me know if the new iron gives higher  
volts?

Yours truly,

*G. S.*

1883-12-31

December 31st. 3

Charles P. Lyon, Esq.

Post Office,

Pottsville, Penna.

Dear Sir:-

In relation to your canvasses, in future when mentioning tenement houses, will you please simply state "tenement" and not class them as second, third or fourth. Please do not take any notice on your canvass of fourth class houses, and also be kind enough not to abbreviate your canvass and call a restaurant or bar "R", but write out in full what it is, and very much oblige,

Yours truly,

Thomas A. Eblin Constr. Dept.

By

*Aoy*

1883-12-31

December 31st. 3

Messrs. Markle & Hall,  
33 Congress Street, W.  
Detroit, Mich.

Dear Sirs:-

In relation to the Ypsilanti lot, we presume you are aware that there is a building on it. We should like to have a carefully figured sketch or drawing of this building, showing the exact size inside, also showing ~~the exterior walls, depth excavated below grade of street, position of columns or interior walls, if there are any, also size of floor beams and distance from centre to centre of same. Are side walls and ceilings plastered or sheathed with boards?~~

We would beg to call your earnest attention to the fact that this information must be very accurate, and we should like the plan made on as large a scale as possible. Immediately on receipt of this data we will forward you the Ypsilanti estimate, all matters in connection with which must remain in abeyance until we hear from you.

Very truly yours,  
Thomas A. Edison Copin, Dept.  
By *A. E. Y.*

Major Insull:-

(1883)

Referring to your memo of this date about Shamokin, all I can say is that Armington & Simmsman makes the assertion that the piece of the regulator which was reversed was put on by a local engineer, before he arrived there. This is denied by the man who is supposed to have done the work before Armington & Simmsman arrived at Shamokin. Now although they insist that they were not at fault, I see no reason to doubt Armington & Simmsman, nor do I see any reason particularly to doubt the local people, except that a man who makes a mistake usually tries to cover it up and the assumption is, that the man that Armington & Simms would send to Shamokin would know something about fixing up the regulator of their engines, whereas the employee of a local machine shop would in all probability know nothing about fixing up such an engine.

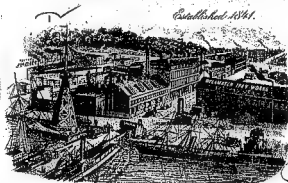
S. Insull.

By. H.

**1883. Edison, T.A. - Suppliers (D-83-017)**

This folder contains correspondence and other documents relating to suppliers of equipment and materials for Edison and his companies. Many of the documents deal with supplies obtained for the construction of central stations by the Thomas A. Edison Construction Department. The items filmed contain significant Edison marginalia or provide significant information about the equipment or materials being purchased.

Approximately 10 percent of the documents have been filmed. Routine correspondence has not been filmed.



Established 1841.

C. H. Delamater

G. W. Robinson

Wm. Delamater

1883-5-23  
**DELAMATER IRON WORKS**  
C. H. DELAMATER & CO. PROPRIETORS.  
BOILER MAKERS  
ENGINE BUILDERS AND FOUNDERS.  
FOOT OF WEST 137<sup>TH</sup> ST  
NORTH RIVER.

*New York* MAY 23, 1883 188

THOMAS A. EDISON ESQ.

65 FIFTH AVENUE,

NEW YORK CITY :--

DEAR SIR :

RECEIVED  
MAY 24 1883  
ANSWERED

FILE NO. .... 188

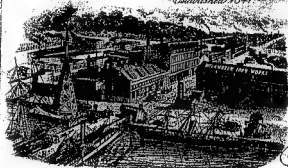
TWO YEARS AGO WE BUILT FROM PLANS OF CAPTAIN ERICSSON A STEAM ENGINE WHICH HAS BEEN RUNNING DURING THE PAST YEAR DRIVING THE ELECTRIC LIGHTS, THE ENGINE BEING CONNECTED DIRECT TO A DYNAMO AND MAKING ABOUT 900 REVOLUTIONS PER MINUTE. IT HAS WORKED SO WELL THAT CAPT. ERICSSON HAS THOUGHT BEST FOR US TO BUILD ANOTHER MACHINE, ADDING SUCH IMPROVEMENTS AS MAY HAVE SUGGESTED THEMSELVES BY THE USE OF THIS FIRST ONE. THE SECOND MACHINE IS NOW FINISHED AND RUNNING AND CAPT. ERICSSON, AS WELL AS OURSELVES, IS ANXIOUS TO HAVE THIS MACHINE DRIVE ONE OF YOUR DYNAMOS. WE INTEND TO PUT UP THIS MACHINE TO LIGHT A PORTION OF OUR OWN WORKS AND BELIEVE IT TO BE ADMIRABLY ADAPTED FOR THAT PURPOSE. WE THINK YOU WILL FEEL A VERY GREAT INTEREST IN IT WHEN YOU SEE IT RUN, THE REGULATION AND LUBRICATION BEING ABSOLUTELY PERFECT. WE

Please address ALL business communications to C. H. DELAMATER & CO.

Established 1841

C. H. Delamater

1883-05-23  
C. H. Delamater & Co. Proprietors



**DELAMATER IRON WORKS**  
C. H. DELAMATER & CO. PROPRIETORS.  
**BOILER MAKERS**  
**ENGINE BUILDERS AND FOUNDERS**  
FOOT OF WEST 13<sup>TH</sup> ST.  
NORTH RIVER.

*New York*

188

WRITE THIS LETTER, HOPING THAT YOU CAN NAME A TIME WHEN YOU WILL  
SEE THE MACHINE HERE OR THAT YOU WILL GRANT AN INTERVIEW AT YOUR  
OWN CONVENIENCE AT YOUR PLACE WITH OUR MR. REYNOLDS WHO WILL EX-  
PLAIN TO YOU WHAT IS REQUIRED IN ORDER TO ATTACH ONE OF YOUR MA-  
CHINES TO THIS ENGINE.

HOPING TO HEAR FROM YOU SOON, WE ARE

YOURS RESPECTFULLY,

C. H. DE LAMATER & CO.

Please address ALL business communications to C. H. DELAMATER & CO.

Western Electric Company,

New York.

1883-07-18

July 18/83.

Geo. A. Edison, Esq.  
60 Fifth Ave.  
New York  
What kind of instrument  
is it? - Allow us to  
call your attention to the  
fact that we have  
just received a sample  
of your dynamo-electric  
currents.

These instruments are  
considered by good judges  
to be the finest made.

We shall be glad to  
let you have a set on  
trial if you desire.

Yours truly,

Western Electric Co.

C. A. Brown

1883-08-18

Established 1837

CHARLES COOPER & CO  
MANUFACTURING  
CHEMISTS & IMPORTERS  
194 WORTH ST.  
WORKS AT NEWARK N.J.

Charles Cooper New York  
Jacob Weinhaus New York  
J.B. Stoussens Newark N.J.

New York Aug 18 1883

Mr. H. Edison  
Dear Sir

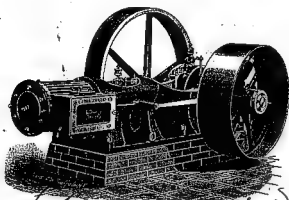
In reply to you  
of the 17th, we quote  
you Pure Sulphate  
Zinc in 10 to 18¢  
at 100 to 15¢  
we remain

Respectfully

Chas Cooper  
Woodworth

Write for a sample for test  
purposes - we must have it  
perfectly free from iron. Especially  
E





W. H. NICHOLSON, PRES.

1883-10-12

F. H. BALL, TREAS.

BALL ENGINE COMPANY,

*Manufacturers of*  
Automatic Cut-Off  
ENGINES.

Rec'd, Pa. *Oct 12 4* 1883

OCT 15 1883

ANSWERED

of an 8 1/2 x 10

FILE NO. 111

*My A Edison*

*We should want to*

*make long test of*

*near that size*

*the sooner it works before*

*My A Edison*

*We have made*

*several attempts to*

*reach your Co but without success in*

*the question of the superiority of our*

*Engine for Electric lighting. We now*

*state our case briefly-*

*On the*

*question of Regulation or as absolutely*

*hold an Engine to speed under full*

*changes of load as the world moves-*

*Our Valve is far Superior to any*

*Piston Valve which is the kind all single*

*valve Automatic Engines use. We*

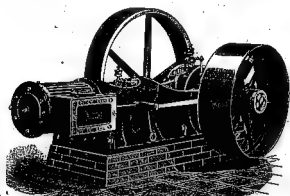
*give the Highest attainable Economy*

*to an Engine Capable of long continuous*

*work having the most improved*

*system of lubrication. We have*

*the Engine at the Boston fair, & if it*



W. H. NICHOLSON, Pres.

1883-10-12

F. H. BALL, Treas.

BALL ENGINE COMPANY,

MANUFACTURERS OF

Automatic Cut-Off  
ENGINES.

Cire, Pa., \_\_\_\_\_ 188

is possible for you to get better results  
for your lights by means of having  
an Engine such as we described -  
we will make the following proposition

If you will send a man there  
to investigate, if all we have  
stated is not correct you can  
draw on us for the expense -

Having today the most  
perfect Electric Engine we must  
have an arrangement with several  
of the Electric Cos as we already  
have with one. Can we hear  
from you

Respectfully Yours  
F. H. Ball  
W. H. Nicholson  
Pres.



1883-10-17

Chicago, Oct. 17, 1883

Thos A Edison Esq  
65 Fifth Ave

N.Y. City

Dear Sir

We thank you for your prompt reply to our letter and beg to say that your suggestion is entirely satisfactory to us.

As soon as an engine can be spared we shall be glad to send you a 9x12 speeded to 300 revolutions for you to test at your works.

Our standard pulley for this engine is 40". Will this suit your requirements. If not please state what size mill. Please state also



1883-10-17

Chicago, Oct. 17, 1883

How long you would like to test the engine. You may expect the following results from our engine which shall be always guaranteed.

1st Chiefly an exactness of regulation that no other system of governing can possibly give

2nd In the matter of fuel economy as good results as any engine can give.

3rd An engine of very superior design & finish and extremely simple in construction as a result of which the engine is capable of long continuous run. As an evidence of

1883-10-17



Chris. Pat.

188

the probability of our doing what we claim we refer you to the Boston Fair where the superior performance of our engine is admitted by all. Please notice the American machinist of this week which speaks of the results obtained by our engine at the fair.

We could give you very flattering testimonials but we refrain from doing so as we know you want the practical demonstration under your own supervision.

In considering the good points of our engine we hope you will not overlook

1883-10-17



Chris. Pat.

188

the valves which has flat wearing surfaces taking up its own wear which is certainly a very much better valve than a piston valve particularly so when considering the question of long life of the engine. We shall be glad to hear from you at your earliest convenience.

Yours Truly  
Ball Engine Co.

1873-10-17



SMITH, MYERS &amp; SCHINNER

MANUFACTURERS OF

STEAM ENGINES &amp; CIRCULAR SAW MILLS

SHAFTING, HANGERS, PULLEYS, COUPLINGS  
AND  
GENERAL MACHINERY.301, 303, 305 & 307  
WEST FRONT STREET

Cincinnati, Oct 17 1873.

In reply to yours of

Thos. A. Edison Esq.  
No 61 5th Avenue  
New York.

Sir:

We learn from Mr Stewart of the Ohio Company that you have signified your willingness, in case we bring an Engine to New York and allow you to test it and the Engine proved to your satisfaction that it is capable of driving an Electric Dynamo equally as well as an Engine manufactured by Mess Armington & Sons of Providence to give us orders for one hundred or more Engines.

We are confident that our Terrospin Engine will do this work and are perfectly willing and even anxious to make the trial. Would of course prefer it near home but would come to New York if our better arrangements can be made.

Would be pleased to have you draw up a contract to this effect and forward to us, let us have also all the data and also state the nature of the test given required & special points to be considered in fact let us understand clearly what is expected of us. We will then write you regarding the matter and can no doubt make arrangements that will be



1883-10-17  
Smith, Myers & Schrier

MANUFACTURERS OF

STEAM ENGINES & CIRCULAR SAW MILLS.

STARTING, HANGERS, PULLEYS & COUPLINGS  
AND  
GENERAL MACHINERY

312, 314, 316 & 318  
WEST FRONT STREET  
Cincinnati

In reply to yours of

perfectly satisfactory to all concerned.  
A prompt reply is respectfully solicited.

Respectfully,

Smith, Myers & Schrier,  
Cincinnati.

As time is an element and as we have the Arringtons running nearly 2 years we would not give order for 100 or short trial but we will put up an engine at Gouck Street works & test the same 2 or 3 months & if satisfied buy a large lot of engines from them - they pay freight etc, & we buy the engine at the factory

14 1/2 x 18 50 to 20

2-60 48 700

12 60 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

Oct 17/13

Schmidt Moyer

Schneider

re an engine

to be tested

GENERAL MACHINES  
AND  
ENGINEERING  
CO.  
NEW YORK  
N. Y.



# BECKER & SONS,

MANUFACTURERS OF

RECEIVED BALANCES AND WEIGHTS OF PRECISION,

OCT 31 1883

ASHTON RED

6 MURRAY STREET,

New York, Oct 31<sup>st</sup> 1883

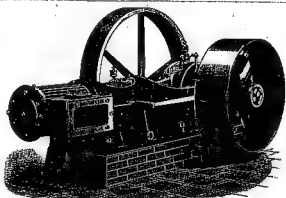
.....1883.....  
P.F. 8

Thomas A. Edison Esq

Dear Sir.

The capacity of  
Balance #7 is 100 Gramms. If you  
need a Balance to carry 300 Gramms  
we would recommend our #8 Balance.  
we enclose one of our lists so that you  
may choose for yourself. we remain  
Yours Very Respectfully  
Becker & Sons.





W. H. NICHOLSON, President

F. H. BALL, Treasurer

1883-11-06

**BALL ENGINE COMPANY,**  
MANUFACTURERS OF  
**Automatic Cut-Off Engines,**  
Embodying a new principle in which the  
**GOVERNOR WEIGHS THE LOAD.**

Thos. A. Edison Esq  
65 Fifth Avenue  
N.Y.

Dear Sir. In reply to your letter of the 24th inst. we would ask you whether after a long period of satisfaction that our engine have you any reason now in use we may hope for that you are so with you or whether you present patent of so preclude the probability of a possible of anything of the sort. You understand that we don't care to incur the expense of a test thereby to satisfy curiosity or to convince you of a fact of there is no probability of its resulting in business. Our own best letter we gave you an idea of what we expect to demonstrate to you. You speak of a 9x12 which size we do not build but would send you a 9x12. In regard to pulley you speak of a 56" pulley. We have no pattern of that size & have never had an order requiring it.

*Original letter to the Ball Engine Co. - we are not in any way bound to him in any way. We never use the Countershafting.*

We have 40" x 46" & would prefer to use one of these rather than make a new pattern for which we might have no further use after this test.

Could it not be arranged with counterbalance for the purpose of this test.

In regard to the expense of test we suppose you will conduct the test if we deliver the engine in your shop & set it up for you.

Are we right about this & if so will there be any unusual expense attending the placing of engine where you can use it.

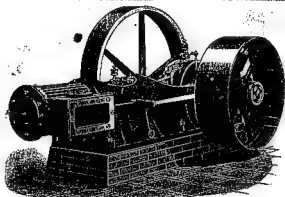
We are very desirous of giving you this demonstration if you want it. Having gone through similar tests on previous occasions we know just what the results will be & you may be sure your dynamo will make absolutely the same number of revolutions when doing its work as when running empty.

Awaiting your kind reply we are

Yours Very Truly

Ball Engine Co.

F. W. Ball & Co.



W. H. NICHOLSON, President.

1883. 11. 09.

P. H. BALL, Treasurer.

BALL ENGINE COMPANY,  
MANUFACTURERS OF

Automatic Cut-Off Engines,

Embodying a new principle in which the

GOVERNOR WEIGHS THE LOAD.

Che, Pa., Nov 9<sup>th</sup> 1883

Mr. A. Edison

New York

515 Dear Sir

In reply to yours of the 4<sup>th</sup> inst. will say - We can give you the verbal statement of our patent lawyer in reference to the question do you infringe on Armstrong & Sons, & is your engine patent free. His answer is "We are patent free" but we will give you his written opinion soon, wherein he will go elaborately into the matter.

Our system of governing is entirely new. We have the only patents covering the principle. We will furnish this information as soon as need.

Respect Yours  
P. H. Ball

1883-11-22

BECKER & SONS,

MANUFACTURERS OF

BALANCES AND WEIGHTS OF PRECISION,

6 MURRAY STREET,

New York, Nov 22 - 1883

Thos. A. Edison Esq

Dear Sir.

The Balance #7  
a B. constructed so as to weight on  
beam in the Beam is really be kind  
enough to inform us what its do  
with same. and oblige.

Yours Very Respectfully  
Becker & Sons

Send to Geo Grown  
Gorack  
tell Clark & Grown  
to test it & give their  
opinion if it is best to  
use them in future  
E

VALLEY IRON WORKS,  
Manufacturing Founders & Machinists,  
33-43 West Street,

WILLIAMSPORT, PENNA.

Nov 26

1883

Mass Edison Electric Light Co.,  
Attentive

We enclose you herewith Photograph of our Small  
Engine. This we have designed with a view to Great Speed Economy.  
We have made a thorough test under strain of iron we can with  
perfect safety without the slightest perceptible jar run it to a  
speed of 1100 revolutions. we showed it in operation to several  
of the Edison Electric Lighting Co of this city. they are very much  
pleased with it especially it number one for the purpose. We  
consider it one of the most compact robust designed Engines  
now in the market. (we have not as yet placed these Engines  
in the market but purpose doing so very shortly) we have  
several 10x12 now under way. which will shortly be completed.  
we have concluded to do away with all belted work. making  
Engines as plain as possible. Green Head has 4 1/2" both Top &  
Bottom. Guides are struck from complete circles making it  
impossible (should Engine get out of line) to injure any of the working  
parts. as Green Head will immediately adjust itself allowing  
Kist Pin Cores to do the same. we have not slighted  
it in any respect & claim we have as fine an Engine for

**HALLEY IRON WORKS,**  
Manufacturing Founders & Machinists,  
33-43 West Street,

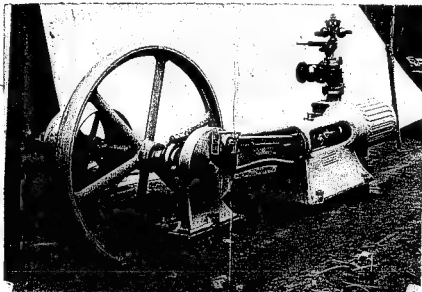
*Can use this  
type of Engine  
has trouble  
going*

WILLIAMSPORT, PENNA.,

the purpose as there is anywhere manufactured, we should  
like to send you one of them on trial. if it proves satisfactory you  
to retain it. if not satisfactory it to be returned at our expense. we  
purpose manufacturing in Erie to suit the demand. we can offer  
you this Engine at \$475. less 30%. if you will allow us to send you  
on under these terms please give us length of shaft you require &  
whether you wish Pilot Steel on end of shaft. If these terms are  
not agreeable please suggest some as we desire you to try it. Kindly  
favor us with reply very much obliged

Very Respectfully yours  
Wm. C. Philley

*will call & see  
it when come to  
Wm. C. Philley*



Thomas A. Addison Esq

65 Fifth Avenue N.Y.C.

Sir. We like the pulley and will

order three when you are

able to supply them. I have  
a paper pulley placed on  
one of your machines for  
trial. The paper pulley is  
a new invention and  
where it has been tested  
has commanded the fullest  
indorsement by Mechanical  
Engineers. It holds the belt  
from slipping equal to the  
Rubber Covered pulley. It  
is lighter than the Cast  
iron pulley. And in the  
points of advantage it  
saves fully 25 percent  
of power over the ordi-  
nary Cast iron pulley.

1883-12-04

As I am about organizing  
a Company to manufacture  
the paper pulley on a large  
scale. Your statement as  
to the advantages the pulley  
possesses for selection of  
machinery would be of  
great benefit. Your Me-  
chanical Superintendent  
who has been using the  
pulley ought to be able  
to give the information  
which to base such opinion.  
I take the liberty of addressing  
you personally as the best  
qualified person whom  
I can address in the organi-  
zation of a Company at

OFFICE OF E. B. MARTINDALE,  
PATENTEE OF "THE AMERICAN PAPER PULLEY,"  
INDIANAPOLIS, IND.

1883-12-04

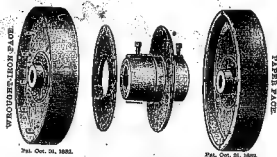
this point for a plant of  
the Edison Electric Light.  
Hoping to hear from you  
soon as to the advantages  
of the Paper Pulley which  
you have had in use  
I remain  
Yours Truly  
E. B. Martindale



1893-12-04

# Martindale's PATENT PAPER PULLEYS.

MANUFACTURED ONLY BY



## American Paper Pulley Co.

114 and 116 S. Pennsylvania St.,

INDIANAPOLIS, IND.

DEALERS IN

### SHAFTING, HANGERS AND BELTING.

[ENCLOSURE]

# PRICE-LIST OF PAPER PULLEYS.

*Bored, Turned and Balanced, with Set-Screws.*

## American Paper Pulley Co.

MANUFACTURERS OF

Paper Pulleys, Wooden Pulleys,

AND

Paper Disc Wrought-Iron Rim Pulleys,

Wood Disc Wrought-Iron Rim Pulleys,

AND

Friction Pulleys.

Our Pulleys are stronger, lighter and cheaper than Cast-Iron Pulleys and are infinitely superior and preferable to any Pulley manufactured.

Our product fully covered by Letters Patent in United States and Foreign Countries.

We guarantee our pulleys to meet all requirements.

Not more broken Pulleys to sell for scrap, or poorly balanced Pulleys to rack your line or counter shaft.

Bore of Pulley in inches	Diameter of Shaft in inches																	
	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
62.15	2.35	2.05	2.80	3.00	3.25	3.50	3.75	4.00	4.25	4.50								
72.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75								
82.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00								
92.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25								
102.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	
112.85	3.10	3.80	3.60	3.90	4.25	4.50	5.00	5.25	5.75	6.00	6.50							
123.00	3.25	3.50	4.00	4.25	4.50	5.00	5.25	5.50	5.80	6.25	6.50	7.00						
133.25	3.50	3.75	4.10	4.40	4.60	5.00	5.25	5.50	5.80	6.25	6.50	7.00	7.50					
143.50	3.50	4.00	4.20	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.75	9.25	9.75				
153.75	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	
164.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	
174.25	3.50	4.00	4.75	5.20	5.75	6.25	6.80	7.30	7.80	8.30	8.80	9.30	9.80	10.30	10.80	11.30	11.80	
184.50	3.50	4.45	4.85	5.50	6.05	6.65	7.25	7.90	8.50	9.10	9.70	10.30	10.90	11.50				
194.80	3.50	5.00	6.00	6.45	7.15	7.75	8.55	9.00	9.75	10.50	11.25	12.00	12.75	13.50				
205.00	3.50	5.25	6.25	6.75	7.45	8.05	8.75	9.25	10.00	10.75	11.50	12.25	13.00	13.75				
215.25	3.50	5.50	6.50	7.00	7.75	8.35	9.05	9.55	10.25	11.00	11.75	12.50	13.25	14.00				
225.50	3.50	5.75	6.75	7.25	8.00	8.60	9.30	9.80	10.50	11.25	12.00	12.75	13.50	14.25	15.00			
235.75	3.50	6.00	7.00	7.50	8.25	8.85	9.55	10.05	10.75	11.50	12.25	13.00	13.75	14.50	15.25			
246.00	3.50	6.25	7.25	7.75	8.50	9.10	9.80	10.30	11.00	11.75	12.50	13.25	14.00	14.75	15.50			
256.25	3.50	6.50	7.50	8.00	8.75	9.35	10.05	10.55	11.25	12.00	12.75	13.50	14.25	15.00	15.75			
266.50	3.50	6.75	7.75	8.25	9.00	9.60	10.30	10.80	11.50	12.25	13.00	13.75	14.50	15.25	16.00			
276.75	3.50	7.00	8.00	8.50	9.25	9.85	10.55	11.05	11.75	12.50	13.25	14.00	14.75	15.50	16.25			
287.00	3.50	7.25	8.25	8.75	9.50	10.10	10.80	11.30	12.00	12.75	13.50	14.25	15.00	15.75	16.50			
297.25	3.50	7.50	8.50	9.00	9.75	10.35	11.05	11.55	12.25	13.00	13.75	14.50	15.25	16.00	16.75			
307.50	3.50	7.75	8.75	9.25	10.00	10.60	11.30	11.80	12.50	13.25	14.00	14.75	15.50	16.25	17.00			
317.75	3.50	8.00	9.00	9.50	10.25	10.85	11.55	12.05	12.75	13.50	14.25	15.00	15.75	16.50	17.25			
328.00	3.50	8.25	9.25	9.75	10.50	11.10	11.80	12.30	13.00	13.75	14.50	15.25	16.00	16.75	17.50			
338.25	3.50	8.50	9.50	10.00	10.75	11.35	12.05	12.55	13.25	14.00	14.75	15.50	16.25	17.00	17.75			
348.50	3.50	8.75	9.75	10.25	11.00	11.60	12.30	12.80	13.50	14.25	15.00	15.75	16.50	17.25	18.00			
358.75	3.50	9.00	10.00	10.50	11.25	11.85	12.55	13.05	13.75	14.50	15.25	16.00	16.75	17.50	18.25			
369.00	3.50	9.25	10.25	10.75	11.50	12.10	12.80	13.30	14.00	14.75	15.50	16.25	17.00	17.75	18.50			
379.25	3.50	9.50	10.50	11.00	11.75	12.35	13.05	13.55	14.25	15.00	15.75	16.50	17.25	18.00	18.75			
389.50	3.50	9.75	10.75	11.25	12.00	12.60	13.30	13.80	14.50	15.25	16.00	16.75	17.50	18.25	19.00			
399.75	3.50	10.00	11.00	11.50	12.25	12.85	13.55	14.05	14.75	15.50	16.25	17.00	17.75	18.50	19.25			
410.00	3.50	10.25	11.25	11.75	12.50	13.10	13.80	14.30	15.00	15.75	16.50	17.25	18.00	18.75	19.50			
420.25	3.50	10.50	11.50	12.00	12.75	13.35	14.05	14.55	15.25	16.00	16.75	17.50	18.25	19.00	19.75			
430.50	3.50	10.75	11.75	12.25	13.00	13.60	14.30	14.80	15.50	16.25	17.00	17.75	18.50	19.25	20.00			
440.75	3.50	11.00	12.00	12.50	13.25	13.85	14.55	15.05	15.75	16.50	17.25	18.00	18.75	19.50	20.25			
451.00	3.50	11.25	12.25	12.75	13.50	14.10	14.80	15.30	16.00	16.75	17.50	18.25	19.00	19.75	20.50			
461.25	3.50	11.50	12.50	13.00	13.75	14.35	15.05	15.55	16.25	17.00	17.75	18.50	19.25	20.00	20.75			
471.50	3.50	11.75	12.75	13.25	14.00	14.60	15.30	15.80	16.50	17.25	18.00	18.75	19.50	20.25	21.00			
481.75	3.50	12.00	13.00	13.50	14.25	14.85	15.55	16.05	16.75	17.50	18.25	19.00	19.75	20.50	21.25			
492.00	3.50	12.25	13.25	13.75	14.50	15.10	15.80	16.30	17.00	17.75	18.50	19.25	20.00	20.75	21.50			
502.25	3.50	12.50	13.50	14.00	14.75	15.35	16.05	16.55	17.25	18.00	18.75	19.50	20.25	21.00	21.75			
512.50	3.50	12.75	13.75	14.25	15.00	15.60	16.30	16.80	17.50	18.25	19.00	19.75	20.50	21.25	22.00			
522.75	3.50	13.00	14.00	14.50	15.25	15.85	16.55	17.05	17.75	18.50	19.25	20.00	20.75	21.50	22.25			
533.00	3.50	13.25	14.25	14.75	15.50	16.10	16.80	17.30	18.00	18.75	19.50	20.25	21.00	21.75	22.50			
543.25	3.50	13.50	14.50	15.00	15.75	16.35	17.05	17.55	18.25	19.00	19.75	20.50	21.25	22.00	22.75			
553.50	3.50	13.75	14.75	15.25	16.00	16.60	17.30	17.80	18.50	19.25	20.00	20.75	21.50	22.25	23.00			
563.75	3.50	14.00	15.00	15.50	16.25	16.85	17.55	18.05	18.75	19.50	20.25	21.00	21.75	22.50	23.25			
574.00	3.50	14.25	15.25	15.75	16.50	17.10	17.80	18.30	19.00	19.75	20.50	21.25	22.00	22.75	23.50			
584.25	3.50	14.50	15.50	16.00	16.75	17.35	18.05	18.55	19.25	20.00	20.75	21.50	22.25	23.00	23.75			
594.50	3.50	14.75	15.75	16.25	17.00	17.60	18.30	18.80	19.50	20.25	21.00	21.75	22.50	23.25	24.00			
604.75	3.50	15.00	16.00	16.50	17.25	17.85	18.55	19.05	19.75	20.50	21.25	22.00	22.75	23.50	24.25			
615.00	3.50	15.25	16.25	16.75	17.50	18.10	18.80	19.30	20.00	20.75	21.50	22.25	23.00	23.75	24.50			
625.25	3.50	15.50	16.50	17.00	17.75	18.35	19.05	19.55	20.25	21.00	21.75	22.50	23.25	24.00	24.75			
635.50	3.50	15.75	16.75	17.25	18.00	18.60	19.30	19.80	20.50	21.25	22.00	22.75	23.50	24.25	25.00			
645.75	3.50	16.00	17.00	17.50	18.25	18.85	19.55	20.05	20.75	21.50	22.25	23.00	23.75	24.50	25.25			
656.00	3.50	16.25	17.25	17.75	18.50	19.10	19.80	20.30	21.00	21.75	22.50	23.25	24.00	24.75	25.50			
666.25	3.50	16.50	17.50	18.00	18.75	19.35	20.05	20.55	21.25	22.00	22.75	23.50	24.25	25.00	25.75			
676.50	3.50	16.75	17.75	18.25	19.00	19.60	20.30	20.80	21.50	22.25	23.00	23.75	24.50	25.25	26.00			
686.75	3.50	17.00	18.00	18.50	19.25	19.85	20.55	21.05	21.75	22.50	23.25	24.00	24.75	25.50	26.25			
697.00	3.50	17.25	18.25	18.75	19.50	20.10	20.80	21.30	22.00	22.75	23.50	24.25	25.00	25.75	26.50			
707.25	3.50	17.50	18.50	19.00	19.75	20.35	21.05	21.55	22.25	23.00	23.75	24.50	25.25	26.00	26.75			
717.50	3.50	17.75	18.75	19.25	20.00	20.60	21.30	21.80	22.50	23.25	24.00	24.75	25.50	26.25	27.00			
727.75	3.50	18.00	19.00	19.50	20.25	20.85	21.55	22.05	22.75	23.50	24.25	25.00	25.75	26.50	27.25			
738.00	3.50	18.25	19.25	19.75	20.50	21.10	21.80	22.30	23.00	23.75	24.50	25.25	26.00	26.75	27.50			
748.25	3.50	18.50	19.50	20.00	20.75	21.35	22.05	22.55	23.25	24.00	24.75	25.50	26.25	27.00	27.75			
758.50	3.50	18.75	19.75	20.25	21.00	21.60	22.30	22.80	23.50	24.25	25.00	25.75	26.50	27.25	28.00			
768.75	3.50	19.00	20.00	20.50	21.25	21.85	22.55	23.05	23.75	24.50	25.25	26.00	26.75	27.50	28.25			
779.00	3.50	19.25	20.25	20.75	21.50	22.10	22.80	23.30	24.00	24.75	25.50	26.25	27.00	27.75	28.50			
789.25	3.50	19.50	20.50	21.00	21.75	22.35	23.05	23.55	24.25	25.00	25.75	26.50	27.25	28.00	28.75			
799.50	3.50	19.75	20.75	21.25	22.00	22.60	23.30	23.80	24.50									

**WE CLAIM THE FOLLOWING ADVANTAGES  
OVER ANY OTHER PULLEYS.**

**THEY ARE STRONGER** and consequently more durable:

1. In the absence of shrinkage strains, to which cast pulleys are subject.
2. The discs or centers being solid, there are no weak or yielding spaces as in a pulley having arms supporting the rims.
3. The rims are not fragile and easily broken as in cast iron.

**THEY ARE LIGHTER** one-third to one-half, than other pulleys, and can be run with safety at higher speed, transmitting the same power with lighter shafting and hangers.

**THEY ARE CHEAPER.** From the saving in cost of Belts, Shafting and Hangers; there is no danger of breakage in handling, there being a direct loss in this way in Cast Iron Pulleys. There is, with a Cast Iron Pulley, a direct loss in the transmission of power caused by the slipping of belts. This is partially overcome by the use of the Wrought Iron Rim Pulley, and entirely overcome by the use of the Paper Face Pulley, the belt adhering to wrought iron, paper or wood much more than to cast iron.

*Our Pulleys are designed for any and all classes of work, but especially recommend themselves to mill furnishers, millers, wood workers and machinists. They are not affected by heat or moisture, but should not be used for out door work, where exposed to the weather, unless well painted at least once a year.*

1883-12-08  
BECKER & SONS,

MANUFACTURERS OF

BALANCES AND WEIGHTS OF PRECISION,

6 MURRAY STREET,

New York, Dec 8 <sup>th</sup> 1883

RECEIVED  
DEC 8 1883  
ANSWERED

Dec 8/83  
FILE NO. ....

T. A. Edison Esq

Dear Sir,

It will cost Five Dollars Extra for the #7 Balance and Eight Dollars Extra for the #8 Balance to make them the same as the one you have in Brook St. we remain

Yours Truly Respectfully  
Becker & Sons

Accepted Dec 8/83

*[Signature]*

1883-12-10

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY**  
**COTTON AND MOHAIR YARNS, WOOL ETC.**

 KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE  
 PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOYD, AND TAYLOR, WOODSWORTH & CO.

 SOLE AGENTS  
 FOR  
 PRINCE, SMITH & SON,  
 WAREHOUSES & FACTORIES,  
 TAYLOR, WOODSWORTH & CO.,  
 FORT COCKE & CO.,  
 T. R. HARDING & SON,  
 OIL & CHEMISTS,  
 J. WHITE & SON,  
 SPINNING LOOMS,  
 BAERLEIN & CO.,  
 RIGGING MACHINES,  
 SAHL, HUBBETTON,  
 SPINNING MACHINES,  
 DODSON & BARLOW,  
 LUTHER MACHINERY.

 SOLE AGENTS  
 FOR  
 O. HARTENLEY & SON,  
 FANCY LOOMS,  
 ELKAMAH HOTEL & SON,  
 STEAM & FIBRE MACHINERY,  
 JAMES YATES & SON,  
 CARD CUSHING,  
 J. JEFFERSON & SON,  
 WOOL WALKERS,  
 TORLOFF,  
 FRENCH BIKING,  
 J. PARKERSON & CO.,  
 TEMPLER,  
 W. E. SMITH & SON,  
 CARPET LOOMS.

Boston, Mass. December 10, your 1883.

 Mr. Thomas A. Edison,  
 Construction Dept.,  
 New York,

Dear Sir:--

In reply to your esteemed favor of 8th inst. we could supply you with the Harding's speed Indicators in quantity at \$29 net, (our price to sell them single is much higher). We could also supply them to you nickel plated, which would cost \$2. more.

We regret that we have no illustrated catalogue, as we should be very happy to forward one to you.

We shall be most happy to receive your orders, which we can forward by cable to insure a speedy delivery.

Yours respectfully,

*Stoddard, Lovering & Co.*

1883-12-10

*Tate here is your  
 please to order  
 better order one  
 sent to 65 some  
 can see if it is  
 right and E*

1883 12-13

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY  
COTTON AND MOHAIR YARNS, WOOL ETC.**

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER, AND DUPLICATE  
PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOYD, and TAYLOR, WORDSWORTH & CO.

SOLE AGENTS  
FOR  
PRINCE, SMITH & SON,  
WINDING MACHINES & CO.  
TAYLOR, WORDSWORTH & CO.  
PISTON COWS CO.  
T. R. BARNES & CO.  
OIL & COMBING PINS.  
J. WHITE & SON,  
APRON LEATHER,  
BARTLEIN & CO.  
SILK MACHINES,  
GAIL, NEWBOTTON,  
SPINDLE BANDS,  
ODDSON & BARLOW,  
WATER MACHINES.

SOLE AGENTS  
FOR  
S. HATFIELD & SON,  
FANCY LOCKS,  
ELKMAN BYLE & SON,  
STEERING & FRICTION MACHINES,  
JAMES VATES & SON,  
CARD CLOTHS,  
J. JEFFERSON & BRO.,  
WOOL MACHINES,  
TIGERLOTH,  
TERRY & SON,  
J. PARKINER,  
TENTLES,  
W. SMITH & BRO.,  
CARPET LOOMS.

*Boston, Mass.* December 18, 1883

Mr. Thomas A. Edison, Constn. Dept.,

New York,

Dear Sir:—

We have your favor of yesterday, and regret that we have only a few days ago parted with the last Speed Indicators we had in stock, and it may be a few weeks before we can have a fresh supply.

Just 12 months ago we sent six of these machines to the "Edison Light Company", and you may be able to see one or the other in New York.

Yours respectfully,

*Stoddard, Lovering & Co.*

*Buyer  
will have to make them - 9*

1883-12-14

102 John St.  
New York, Dec. 14<sup>th</sup> 1883.

Mrs. Thos. A. Edison,  
Construction Department, 65-5<sup>th</sup> Ave,  
Dear Sir,

Your favor of the 12<sup>th</sup> inst. is received.  
I have already an order given me personally by Mr.  
Edison for 500 lbs Sulphate Zinc to be free from Iron.  
Do I understand that you would like a sample  
before the lot is made? Kindly explain & oblige -  
Yours truly

Chas. T. White

Jr. Mr. W.

You delayed so we ordered a  
ton from Powers & Wrightman.  
However send sample & 500  
lbs to T. A. Edison Care Reymann  
& Co. ave B + 17<sup>th</sup> St

1883-12-19

*Stoddard, Lovering & Co.*  
IMPORTERS OF

IMPORTERS OF

**TEXTILE MACHINERY**  
**COTTON AND MOHAIR YARNS, WOOL ETC.**

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. A. T. BOYD, AND TAYLOR, WORDSWORTH & CO.

**SOLE AGENTS  
FOR**  
**PRINCE, SMITH & SON,**  
MANUFACTURERS OF PATENT  
**TAYLOR, WOODWORTH & CO.**  
MACHINE CO. LTD.  
**T. R. HARDING & SONS,**  
MILL & COMBING MACH.  
**J. WHITE & SONS,**  
JAMES LEXINGTON,  
**GARREIN & CO.**  
GUTHRIE LAMBERTS.  
**BAHL, ROWSBOTTOM,**  
SPINDLE MACHS.  
**DOBSON & BARLOW,**  
PATENT MACHINERY.

SOLE AGENTS  
FOR  
O. HATTERSLEY & SONS  
FANCY GOODS.  
ELKHART HAT & GOWN  
STORE & FINEST STOCKING  
JAMES VATES & SONS,  
CAMP CLOTHING.  
J. JEFFERSON & BROS.,  
WELL, WAISTERS,  
TORTUOTIN,  
FRENCH GOODS.  
J. FANNINGTON,  
TENPIES.  
W. SMITH & BROS.,  
CAMP CLOTHING.

*Boston, Mass.* December 19, 1883

Mr. Thomas A. Edison.

Construction Dept.

Dear Sir:—

We just received your telegram inquiring time of day in which we could deliver Indicators.

As we could only guess at it, we have preferred to inquire by cable, how soon we could count upon the shipment of it, and will give you our answer to-morrow morning by wire. Should they be in stock, they can probably be delivered in three weeks, otherwise, it may take four to five weeks.

Yours respectfully,

~~Secretary~~  
 Yes Sir, they can  
 deliver mi about  
 four weeks so  
 I gave them  
 order - Gate



1883-12-21

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY  
COTTON AND MOHAIR YARNS, WOOL ETC.**

SOLE AGENTS  
FOR  
PRINCE, SMITH & SON,  
WENTFORD, WINDHAM & CO.,  
TAYLOR, WOODBURN & CO.,  
WOLFE, CHASE & CO.,  
T. R. HARDING & SONS,  
DELL & COMPANY, PHILADELPHIA,  
J. WHITE & SONS,  
APRIL LEATHER,  
BAERLEIN & CO.,  
BIRD & COMPANY,  
SAML. BOWEN & SONS,  
SPINDLE BANDS.

SOLE AGENTS  
FOR  
G. HATTERLEY & SONS,  
FRANCE & SONS,  
ELKHART & SONS,  
BROWN & FARMINGHAM & SONS,  
JAMES VATER & SONS,  
CARP & SONS,  
J. JEFFERSON & SONS,  
WOLFE, CHASE & CO.,  
T. R. HARDING & SONS,  
DELL & COMPANY, PHILADELPHIA,  
J. WHITE & SONS,  
APRIL LEATHER,  
BAERLEIN & CO.,  
BIRD & COMPANY,  
SAML. BOWEN & SONS,  
SPINDLE BANDS.

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE  
PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOND, AND TAYLOR, WOODBURN & CO.

*Boston, Mass.* December 21, 1883

Mr. Thomas A. Edison,

New York, N. Y.,

Dear Sir:—

We received this morning a cable message from our friends, saying that they could ship 24 Speed Indicators within a month, of which we informed you by wire, and received since your message asking us to order them, which we have done to-night by cable.

We remain, dear sir,

Yours respectfully,

*Stoddard, Lovering & Co.*



THE

(1883)

WOOD AND RICHMOND REFRIGERATION COMPANY,  
MAKERS OF  
REFRIGERATING AND ICE MACHINERY,

ALSO

CONDENSE WATER-COOLERS (Saving 90 per cent. of Water.)



OFFICES, 176 BROADWAY.

Write & say that so far we  
have not been <sup>1888</sup> ~~troubled~~ with  
priming but expect to make several  
installations where we shall be  
65 Fifth Ave trial &  
Hearley. will give it a trial &

Shoulder to Campbell E  
We enclose your sketch of a  
simple apparatus <sup>sketch in book &</sup> which we patented  
for separating gas from liquid. The  
<sup>Keep the address with notes</sup> same attached to delivery pipe close  
up to boiler forms an excellent prevention  
of priming. Experiments have shown  
that priming is almost entirely due  
to the sweeping along by the steam  
of a film of water adhering to the sides  
of the pipe by capillary attraction.

The inverted cone secured to  
the upper part of the apparatus by  
means of a ferrule is of copper or  
steel the mouth being ground to a  
knife edge. The film of water is small

to pass his edge and drop back  
into the boiler. If you have any  
trouble from prunning we should be  
glad to arrange for a trial of the  
apparatus being confident that  
it would prove an entire success.

Yours respectfully  
Woot and Richmond

James C. Woot & Richmond

RECEIVED  
JAN 10 1891  
U.S. DEPT. OF AGRICULTURE  
WASHINGTON

**1833. Edison, T.A. - Unsolicited Inquiries (D-83-018) [not filmed]**

This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for other information about his inventions.

**1883. Edison, T.A. - Visitors (D-83-019) [not filmed]**

This folder contains routine letters of introduction and requests to visit Edison. Letters that received a significant response by Edison, or that were written by individuals associated with Edison, are filed in their appropriate subject folders.

## **PUBLICATION AND MICROFILM COPYING RESTRICTIONS**

**Reel duplication of the whole or of any part of this film is prohibited. In lieu of transcripts, however, enlarged photocopies of selected items contained on these reels may be made in order to facilitate research.**

## **A Note on the Sources**

**The pages which have been  
filmed are the best copies  
available. Every technical  
effort possible has been  
made to ensure legibility.**



65

**END**

## FINANCIAL CONTRIBUTORS

### PRIVATE FOUNDATIONS

Alfred P. Sloan Foundation  
Charles Edison Fund  
The Hyde and Watson Foundation  
Geraldine R. Dodge Foundation

### PUBLIC FOUNDATIONS

National Science Foundation  
National Endowment for the Humanities

### PRIVATE CORPORATIONS AND INDIVIDUALS

Alabama Power Company  
Amerasia Hess Corporation  
AT&T  
Atlantic Electric  
Association of Edison Illuminating  
Companies  
Battelle Memorial Institute Foundation  
The Boston Edison Foundation  
Cabot Corporation Foundation  
Carolina Power and Light Company  
Consolidated Edison Company of  
New York, Inc.  
Consumers Power Company  
Corning Glass Works Foundation  
Duke Power Company  
Exxon Corporation  
Florida Power & Light Company  
General Electric Foundation  
Gould Inc. Foundation  
Gulf States Utilities Company  
Idaho Power Company  
International Brotherhood of Electrical  
Workers  
Iowa Power and Light Company

Mr. and Mrs. Stanley H. Katz  
Matsushita Electric Industrial Co., Ltd.  
McGraw-Edison Company  
Middle South Services, Inc.  
Minnesota Power  
New Jersey Bell Telephone Company  
New York State Electric & Gas  
Corporation  
North American Phillips Corporation  
Philadelphia Electric Company  
Phillips International B.V.  
Public Service Electric and Gas  
Company  
RCA Corporation  
Robert Bosch GmbH  
San Diego Gas & Electric  
Savannah Electric and Power Company  
Scherling Plough Foundation  
Texas Utilities Company  
Thomson-Brandt  
Transamerica Delaval Inc.  
Westinghouse Educational Foundation  
Wisconsin Public Service  
Corporation

## **BOARD OF SPONSORS**

Rutgers, The State University of  
New Jersey

Edward J. Bloustein

T. Alexander Pond

Tilden G. Edelstein

John Gillis

New Jersey Historical Commission

Bernard Bush

Howard L. Green

National Park Service, Edison

National Historic Site

Roy W. Weaver

Edward J. Pershey

Smithsonian Institution

Bernard Finn

Arthur P. Molella

## **EDITORIAL ADVISORY BOARD**

James Brittain, Georgia Institute of Technology

Alfred D. Chandler, Jr., Harvard University

Neil Harris, University of Chicago

Thomas Parke Hughes, University of Pennsylvania

Arthur Link, Princeton University

Nathan Reingold, Smithsonian Institution

Robert B. Schofield, Iowa State University

## **CORPORATE ASSOCIATES**

William C. Hittinger (chairman), RCA Corporation

Edward J. Bloustein, Rutgers, The State University of N.J.

Cees Bruynes, North American Philips Corporation

Paul J. Christiansen, Charles Edison Fund

Philip F. Dietz, Westinghouse Electric Corporation

Roland W. Schmitt, General Electric Corporation

Harold W. Sonn, Public Service Electric and Gas Company

Morris Tanenbaum, AT&T

**THOMAS A. EDISON PAPERS**

**Reese V. Jenkins**  
Director and Editor

**Thomas E. Jeffrey**  
Associate Director and Microfilm Editor

**Assistant Editors**  
**Paul B. Israel**  
**Robert A. Rosenberg**  
**Kelth A. Nier**  
**Andrew Butrica**

**Assistant to the Director**  
**Helen Endick**

**Leonard DeGraaf**  
**Alan Stein**  
**Jacquelyn Miller**

**Research Associates**  
**Douglas G. Tarr**  
**Mary Ann Helleigel**  
**David W. Hutchings**

**Secretary**  
**Grace Karkowski**

**Student Assistants**

**Joseph P. Sullivan**  
**Karen Kozak**  
**Granville Miller**

**Thomas A. Edison Papers**  
at  
**Rutgers, The State University**  
endorsed by  
**National Historical Publications and Records Commission**  
18 June 1981

Copyright © 1987 by Rutgers, The State University

All rights reserved. No part of this publication including any portion of the guide and index or of the microfilm may be reproduced, stored in a retrieval system, or transmitted in any form by any means—graphic, electronic, mechanical, or chemical, including photocopying, recording or taping, or information storage and retrieval systems—without written permission of Rutgers, The State University, New Brunswick, New Jersey.

The original documents in this edition are from the archive at the Edison National Historic Site at West Orange, New Jersey.

# Thomas A Edison Papers

*A SELECTIVE MICROFILM EDITION*

*PART II  
(1879-1886)*

Thomas E. Jeffrey  
Microfilm Editor and Associate Director

Paul B. Israel  
Assistant Editor

Mary Ann Helfrigel  
David W. Hutchings

Douglas G. Tarr  
Robert A. Rosenberg

Editorial Associates

Leonard DeGraaf  
Joseph P. Sullivan  
Alan Stein  
Karen Kozak

John Deasey  
Barbara B. Tomblin  
Jacquelyn Miller  
Maria Antonakakis

Student Assistants

Keith A. Nier  
Assistant Editor

Reese V. Jenkins  
Director and Editor

Sponsors

Rutgers, The State University of New Jersey  
National Park Service, Edison National Historic Site  
New Jersey Historical Commission  
Smithsonian Institution

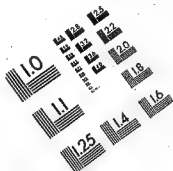
University Publications of America  
Frederick, Maryland  
1987

Edison signature used with permission of McGraw-Hill Company.

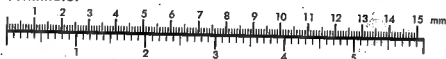


Association for  
Information and Image  
Management

MS303-1980



Centimeter



Inches

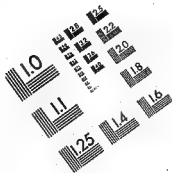




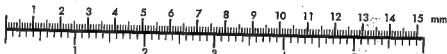


Association for  
Information and Image  
Management

MS303-1980



Centimeter



Inches



# Thomas A Edison Papers

## A SELECTIVE MICROFILM EDITION

### PART II (1879-1886)

Thomas E. Jeffrey  
Microfilm Editor and Associate Director

Paul B. Israel  
Assistant Editor

Mary Ann Hellrigel  
David W. Hutchings

Douglas G. Tarr  
Robert A. Rosenberg

Editorial Associates

Leonard DeGraaf  
Joseph P. Sullivan  
Alan Stein  
Karen Kozak

John Deasey  
Barbara B. Tomblin  
Jacquelyn Miller  
Maria Antonakakis

Student Assistants

Keith A. Nier  
Assistant Editor

Reese V. Jenkins  
Director and Editor

#### Sponsors

Rutgers, The State University of New Jersey  
National Park Service, Edison National Historic Site  
New Jersey Historical Commission  
Smithsonian Institution

University Publications of America  
Frederick, Maryland  
1987

Edison signature used with permission of McGraw-Edison Company.

**Thomas A. Edison Papers  
at  
Rutgers, The State University  
endorsed by  
National Historical Publications and Records Commission  
18 June 1981**

Copyright © 1987 by Rutgers, The State University

All rights reserved. No part of this publication including any portion of the guide and index or of the microfilm may be reproduced, stored in a retrieval system, or transmitted in any form by any means—graphic, electronic, mechanical, or chemical, including photocopying, recording or taping, or information storage and retrieval systems—without written permission of Rutgers, The State University, New Brunswick, New Jersey.

The original documents in this edition are from the archive at the Edison National Historic Site at West Orange, New Jersey.

**THOMAS A. EDISON PAPERS**

**Reese V. Jenkins**  
Director and Editor

**Thomas E. Jeffrey**  
Associate Director and Microfilm Editor

**Assistant Editors**

**Paul B. Israel**  
**Robert A. Rosenberg**  
**Keith A. Nier**  
**Andrew Butrica**

**Research Associates**

**Douglas G. Tarr**  
**Mary Ann Hellrigel**  
**David W. Hutchings**

**Assistant to the Director**  
**Helen Endick**

**Secretary**  
**Grace Kurkowski**

**Student Assistants**

**Leonard DeGraaf**  
**Alan Stein**  
**Jacquelyn Miller**

**Joseph P. Sullivan**  
**Karen Kozak**  
**Granville Miller**

## BOARD OF SPONSORS

Rutgers, The State University of  
New Jersey  
Edward J. Bloustein  
T. Alexander Pond  
Tilden G. Edelstein  
John Gillis  
New Jersey Historical Commission  
Bernard Bush  
Howard L. Green

National Park Service, Edison  
National Historic Site  
Roy W. Weaver  
Edward J. Pershey  
Smithsonian Institution  
Bernard Finn  
Arthur P. Motella

## EDITORIAL ADVISORY BOARD

James Brittain, Georgia Institute of Technology  
Alfred D. Chandler, Jr., Harvard University  
Neil Harris, University of Chicago  
Thomas Parke Hughes, University of Pennsylvania  
Arthur Link, Princeton University  
Nathan Reingold, Smithsonian Institution  
Robert E. Schofield, Iowa State University

## CORPORATE ASSOCIATES

William C. Hittinger (chairman), RCA Corporation  
Edward J. Bloustein, Rutgers, The State University of N.J.  
Cees Bruynes, North American Phillips Corporation  
Paul J. Christiansen, Charles Edison Fund  
Philip F. Dietz, Westinghouse Electric Corporation  
Roland W. Schmitt, General Electric Corporation  
Harold W. Sonn, Public Service Electric and Gas Company  
Morris Tanenbaum, AT&T

## FINANCIAL CONTRIBUTORS

### PRIVATE FOUNDATIONS

Alfred P. Sloan Foundation  
Charles Edison Fund  
The Hyde and Watson Foundation  
Geraldine R. Dodge Foundation

### PUBLIC FOUNDATIONS

National Science Foundation  
National Endowment for the Humanities

### PRIVATE CORPORATIONS AND INDIVIDUALS

Alabama Power Company  
Amerasia Hess Corporation  
AT&T  
Atlantic Electric  
Association of Edison Illuminating  
Companies  
Battelle Memorial Institute Foundation  
The Boston Edison Foundation  
Cabot Corporation Foundation  
Carolina Power and Light Company  
Consolidated Edison Company of  
New York, Inc.  
Consumers Power Company  
Corning Glass Works Foundation  
Duke Power Company  
Exxon Corporation  
Florida Power & Light Company  
General Electric Foundation  
Gould Inc. Foundation  
Gulf States Utilities Company  
Idaho Power Company  
International Brotherhood of Electrical  
Workers  
Iowa Power and Light Company

Mr. and Mrs. Stanley H. Katz  
Mitsubishi Electric Industrial Co., Ltd.  
McGraw-Edison Company  
Middle South Services, Inc.  
Minnesota Power  
New Jersey Bell Telephone Company  
New York State Electric & Gas  
Corporation  
North American Philips Corporation  
Philadelphia Electric Company  
Philips International B.V.  
Public Service Electric and Gas  
Company  
RCA Corporation  
Robert Bosch GmbH  
San Diego Gas & Electric  
Savannah Electric and Power Company  
Schering Plough Foundation  
Texas Utilities Company  
Thomson-Brandt  
Transamerica Delaval Inc.  
Westinghouse Educational Foundation  
Wisconsin Public Service  
Corporation

**START**

65



## **A Note on the Sources**

**The pages which have been  
filmed are the best copies  
available. Every technical  
effort possible has been  
made to ensure legibility.**

## **PUBLICATION AND MICROFILM COPYING RESTRICTIONS**

**Reel duplication of the whole or of any part of this film is prohibited. In lieu of transcripts, however, enlarged photocopies of selected items contained on these reels may be made in order to facilitate research.**

**THOMAS A. EDISON PAPERS**  
**A SELECTIVE MICROFILM EDITION**  
**PART II**  
**(1879-1886)**

**REEL 65**

**DOCUMENT FILE SERIES (DOC-25)**  
**D-83-016 [continued] through D-83-019**  
**("Edison, T.A. - Outgoing Correspondence"**  
**through "Edison, T.A. - Visitors")**

**D-83-016 Edison, T.A. - Outgoing Correspondence**

**CONTINUED FROM PRECEDING REEL**

1883-09-01

September 1st. 3

Major Flood Pape, General Manager,

Edison's Indian & Colonial Electric Co.

London, E. C. England.

Dear Sir:-

I have to give you below prices for machines, which we are now manufacturing:-

100 Light Machine.....\$ 400

400 Light Machine.....1,500

We are getting out designs for a 35 light machine, which will cost about \$175.; a 50 light machine which will be sold at about \$275.; We are also designing a 200 and 300 light machine, but cannot state what the price will be, until we have got a little further along in our work. Of course the only prices which you can look upon as absolute are those for the 100 and 400 light machines. In the course of a week or so, I can doubtless give you prices of machines of other denominations. All our prices are quoted F. O. B. in New York, but should any extra packing be required for long sea voyages, we shall be obliged to charge you for it. In shipping to England and the Continent, we are in the habit of using only our ordinary packing, but I presume if we have

1883-09-01

2

to ship to Australia for you, especially if we have to ship by Peabody's cutters, we shall have to use extra packing.

I also beg to hand you herewith price list of the Electric Tube Company for tubing on three wire system. These prices are subject to variations in the price of iron piping and of copper

I will send you a price list for lamps by Saturday's mail. I have been unable to get this out, owing to the absence of Mr. Upton, the Manager of the Lamp Factory.

I understood from you when you were here, that you had obtained from Bergmann & Co. their prices.

Very truly yours,

Enclosure.

1883-09-03

Sept, 3rd,

3

Charles Batchelor, Esq.,

Paris, France,

My Dear Batchelor:-

I find that I did not answer your letter of the 24th, June, asking me to explain how it was that there was a cross on the mains, in the down town district which the safety catches did not take care of, and which was only got rid of by putting on engine after engine until a piece of tube was burnt right off.

You will remember that the safety catches were only put on one pole of the system. In the first case they are rectified in the inside wire work by using a double safety catch, but the underground system was still left with only one side, consequently, when the grounds appeared the unprotected side of the circuit a short circuit was inevitable. Do you understand?

I am very poor on electrical descriptions, and more especially when it refers to a subject that I do not really conversant with.

I enclose you herewith copies of two sketches drawn by Edison, the original of which I have sent to Lieb, Milan. This will show you exactly what we use at the central station as an ampere recorder.. It is attached to the omnibus main in the sta-

Yours

1883-09-03

2

tion. Bradley carefully recorded the movements of the needle and compared these with the steam cards taken at the same time and then arrived at the exact number of lamps indicated as being on by the movements of the needle. He then prepared a scale, and attached it to the recorder, so that when a deflection of the needle takes place it will point out exactly the number of lamps burning on the system at that moment. The thing works very well indeed, and it is very interesting to watch its movements. If it happens to be a showery day, and a cloud suddenly comes up, the number of lights put in within a few moments is very large, as is shown by the deflection of the needle.

Very truly yours,

Enclosure.



1883-09-03

Sept. 3rd.

3

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We have again gone into the matter of a central station  
lot at Hallowfont.

Lot 40 x 130, price \$430, on Lamb street, is the one best  
suited for our purpose.

Very truly yours,

1883-9-63

September Ord.

3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I have not yet received anything from you stating  
whether you can and how soon you can ship six <sup>1</sup> 5 1/2 x 10 engines.  
All that we have is to the effect that you can ship three weeks  
from the receipt of order. I am waiting to cable to London on  
this point, and would urge you to let me have the answer immedi-  
ately by wire.

Very truly yours,

1573-09-03

Sept. 3rd, 1969.

Charles W. Westervelt, Esq.

1230 Third Avenue, City.

Dear Sir:-

Referring to your favor of the 10th. ulto., I think you are in error in stating that I charged you with being dishonest.

I had information which led me to believe that something of very peculiar character had taken place with relation to the pay-rolls at Church Street, and my informant connected your name with it.

I am glad to hear, however, that you are perfectly innocent, and that if anything wrong occurred in relation to the above matter, you had no connection whatever with it.

Very truly yours,

1883-09-03

Sept. 3rd. 1883

A. Stuart, Esq. Mecty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

Referring to your letter of the 20th. ult., I should like to have pointed out where we make 100 per cent on the items in the liquid estimate. I think there must be some error as to this matter, as our figures were all put at the lowest possible point to enable us to get our "square".

Very truly yours,

1883-09-03

Sept. 3rd.

E. W. Wilbur, Esq.

Worcester, Mass.

Dear Sir:-

Your various letters to hand.

Will you please ascertain at what time the library at  
Ashburn Hall, at Worcester, lights up?

In future we shall be glad, whenever possible, if you  
will give us the time of the lighting of all public <sup>buildings</sup> ~~buildings~~,  
Halls, libraries &c..

I am unable to tell you exactly where you will go to after  
after you have canvassed <sup>Southbridge</sup> ~~Southbridge~~, but will let you know in the  
course of a day or so.

Very truly yours,

1883-09-03

September 9 1883

J. W. Gorrell, Esq.

140 Nassau Street, City.

Dear Sir:-

Referring to your favor of the 31st, I have heard from  
Mr. Conkling since you saw him, and my letter to you was in con-  
sequence of a communication from him stating that he would act for  
me.

Very truly yours,

1883-09-03

Sept. 3rd. 3

Spencer Jordan, Esq.

P. O. Box, Mill,

Boston, Mass.

Dear Sir:-

I send you by this Mail, under separate cover, map of Worcester with red circle marked thereon.

Please have the price of lots obtained, that are for sale within the area marked, and send same to us, together with the map sent herewith.

We want the lots marked distinctly on the map, and shall be glad to have full information as to the sizes of each lot, the price of same, the nature of the soil and whether there are any buildings on the lots, and if so, the character of same and size.

We are waiting for the location of central stations at North Adams, and Pittsfield. Please let us have these as soon as possible.

Very truly yours,

1883-09-03

Sept. 3rd,

3

Major Flood Page, Gen'l. Manager,

Edison's Indian & Colonial Electric Co.

London, E. C. England.

Dear Sir:-

You asked for a statement, when you were here, of the number of Armstrong & Sims engines used by us.

I enclose you a list which gives you the engines shipped up to July, 1883. We are ordering these engines right along, so that this list, up to this date, is incomplete.

Very truly yours,



1875-09-03

September 3rd.

3

George S. Judd, Esq.

San Francisco, Cal.

Dear Sir:-

I find that your letter of the 30th July has been mislaid, hence the delay in replying to same.

I am indebted to you for the Post Office Order for \$5. I presumed that you had forgotten about the matter, and know that I would hear from you as soon as it occurred to you.

I enclose you herewith a memorandum prepared by Mr. Edison as to canvassing. If it does not give you all the information you desire in relation to this matter, please notify me as to what further you would like us to explain, and I will answer you promptly.

Very truly yours,

1883-09-03

Sept. 3rd.

3

P. D. Myer, Esq.

St. James Hotel,

Springfield, Ohio.

Dear Sir:-

In future please give, if possible, the time of lighting  
of all public halls, libraries &c., as this information will be  
very useful to us.

Very truly yours,

1883-09-03

September 3rd.

3

Edison Lamp Co.

Harrison, N. J.

Dear Sirs:-

Referring to your Mr. Wilmer's letter of the 30th. ult.,

I think it would be advisable to stick to our  
fibres and try  
and work up the life.

Very truly yours,

1873-09-03

Sept. 3rd.

Charles T. Hughes, Esq.

J. S. Hotel,

Newburgh, N. Y.

Dear Sir:-

I send you by this mail map of Newburgh with two circles thereon, and shall be glad if you will let us have a memorandum of the lots for sale within that area, giving the size and price of each lot and the nature of the soil, and whether there are any buildings on the lots, and if so the character and size of same.

It would be preferable to have the central station inside of the circle AA and if not inside of the circle BA.

In sending the above information, please return the map with the lots marked distinctly thereon.

Very truly yours,

Sunbury

1883-09-03

Sept. 3rd.

W. S. Andrews, Esq.

National Hotel,

Shamokin, Penna.

Dear Sir:-

If the Sunbury engineer should get sick, could his brother run the station?

Do you think that the engineer and his brother could answer the questions with relation to the engineer and motor work, which Mr. Edison sent you and which you answered?

Can you give me any information of the total number of lights connected at Sunbury?

I have telegraphed this morning to Mr. Marr asking him to send Hollis the wireman, who is new at Sunbury, to report to you at Shamokin. This man is supposed to teach the permanent local man at Shamokin, but pending Mr. Edison's arrival there, I do not want any arrangements made with a local man, as Mr. Edison wishes to choose one himself. If Mr. Mauty desires some houses wired, you had better ask him to engage such a man as Hollis would wish to assist him, say a local carpenter. This engagement should not be of a permanent character, but only by the day. I want you to see that Hollis does his work well and economically, and also desire that you should look up some jobbing carpenters in Shamokin, to

1583-09-03

2

that when Mr. Edison goes there, he will have little difficulty in picking out the man he wants.

On Monday I shall send Mr. Leonard to take the place of Mr. Conant, as I want Conant to go to Brockton Tuesday night.

Have written Herppmann about the switches.

Very truly yours,

1873-09-03

Sept. 3rd.

3

J. R. Campbell, Esq.

Bellefonte, Penna.

Dear Sir:-

Referring to your telegram of yesterday's date, I beg to send you herewith another map of Bellefonte.

The central station we have chosen is on Lamb Street, lot 40 x 120.

You will have to get a permit to run our feeders from the back of the lot to the red lines, and the course our feeders will take is indicated by the white lines on the map.

Please see if you can get this permit, and return the map to us at the earliest possible moment.

We will advise you by telegraph where to go after you get through at Bellefonte.

You will notice attached to the maps sent you some remarks by Mr. Spangue, which will explain to you what permits are required, in addition to those stated to you when you were here.

Very truly yours,

Enclosure.

1883-09-03

September 3rd, 3

Major Flood Page, Gen'l. Manager,  
Edison's Indian & Colonial Electric Co.  
London, E. C. England.

Dear Sir:-

Enclosed herewith please find statement of Mr. Edison as to canvassing towns for central station purposes, also statement as to the progress of our business in America. If you desire any further information on these points, please inform me and I will write you fully as to the matter.

Very truly yours,

Enclosure, d.

1883-09-03

Sept. 3rd, 1883.

C. J. Willard, Esq.

Care Mr. Phenson, Willard & Co.

Portsmouth, N. J.

Dear Sir:-

Could you take some of the cores which we have at  
George Street and hammer them down so that they would be thicker  
and shorter? If so, on what terms could you do this?

We wish to alter over a number of our E and L machines,  
and in order to do so economically we shall have to get the cores  
hammered down to shorter lengths of great diameter.

Very truly yours,



1883-09-03

September 3rd.

3

John W. Lieb, Esq.

Via Manzoni, 13 A,  
Milano, Italy.

Dear Sir:-

I find your letter of the 1st. July has been overlooked.

If the Italian Company will give you from \$2000. to \$25000. a year, I donnot think you would be doing better if you took from them a three years contract.

I think it would be a great mistake to use a regulator with relation to the station. If you will communicate with Mr. Kitcheler, I have no doubt he will give you all the information you may desire on this subject.

You should use an amper's meter to show the number of lights on the system at any given time.

I enclose you herewith rough sketch of an instrument that we use for this purpose, which works very well indeed.

Very truly yours,

Enclosure.,f.

1883-09-03

Sept. 3rd. 1883.

H. C. Blackmer, Esq., Supt.

N. Y. Mica Mining Co.

Custer, D. T.

Dear Sir:-

Your very abusive letter of the 17th. ulto., addressed to Mr. Wells, has been turned over to me to reply to, in consequence of the gentleman who conducted the correspondence with you having left my service.

I have called for copies of the whole correspondence with you in relation to this matter, and will endeavor to settle it immediately the same is placed in my hands, as it is very distasteful to me to be compelled to have dealings with any one who doubts the veracity of statements emanating either from my own office or the office of my shops, the Edison Machine Works.

I do not know what has been done in the matter recently, beyond your letter of the 17th. August, so am unable to say anything further than this at this writing.

Very truly yours,

*Dynamo*

1883-09-03

Sept. Ord.

3

Messrs. Bergmann & Co.

202 Avenue B, City.

Dear Sirs:-

Mr. Andrews writes as follows with relation to the new house changing switches:-

"On farther consideration, I think the connecting posts on double main switch should be made on same pattern and size as connecting post on head-board of 'H' dynamo, as there will be three wires running to each of them, and it will be best to clamp all three."

Will you see that this is done.

Very truly yours,

Patents

1873-09-03

Sept. 3rd.

3

Charles Hatchelor, Esq.

Paris, France.

Dear Sir:-

I wrote you some time back in reference to Italian patents, and you sent a form which is not exactly what is required by us.

What we want to get is a copy of an official paper or order issued by the Italian Government in response to an application for prolongation of a patent.

Very truly yours,

1773-09-04

Sept. 4th.

George H. Hopkins, Esq.

C-O "Scientific American"

261 Broadway, City.

Dear Sir:-

I have your letter of September 3rd, and in reply would  
beg to state that you can use my name as reference.

Trusting that your venture will be successful, I remain,

Yours very truly,

*Tak.*  
*D*

Danbury

1883-09-04

Sept. 4th.

8

H. W. Walber, Esq.

Webster, Mass.

Dear Sir:-

I wish to call your attention to some omissions which you made in the canvass of Danbury, in order that you may rectify them in future:-

TURKISH HOUSE. An old resident of the place informs me that this is a large and first class hotel. You fail to mention it in your canvass.

RAILROAD DEPOT. You only show two lights in the telegraph office. But about the waiting rooms, Superintendent's office, platform No. 7

OPERA HOUSE. You fail to mention the number of light or the approximate time of burning.

DWELLINGS. When there are only two or three dwellings in a large block or say 1000 feet, you should always state about how many feet these houses are situated from a certain corner, as it is more than likely that without this information the lights will be improperly located. It is not necessary for you to give us the exact distance, for all practical purposes you can arrive near enough to it by pacing.

In crossing railroad tracks, bridges or any other noticeable land-marks, please mention them in your canvass. I notice

1883-09-04

2

that you generally mention railroad tracks, but you omit to say anything about bridges.

When there are no houses on an alley it is unnecessary to take up three or four pages to say, "east side nothing, north side nothing, west side nothing." If you would simply make a note at the top of the page it would answer.

Very truly yours,

A. B.

1893-09-04

Sept. 4th. 3

James Swinburne, Esq.

9 Newnhamby Terrace,

Gateshead-on-Tyne, England.

Dear sir :-

I beg to acknowledge receipt of your favor of the 21st. ulto., and note what you say about the double winding of dynamos and thread carbons.

In reference to the former, I used those double <sup>around</sup> ~~wound~~ dynamos <sup>1</sup> 2 years ago, and my patent is about a year old now.

We have made thread carbons but prefer using bamboo.

I regret to say that I am unable to avail myself of the opportunity of securing your very valuable services, as I have no position which I can offer you.

Very truly yours,

J. S. B.  
J



1883.09.04

Sept. 4th.

3

Wm. J. Sprague, Esq.

Hotel Palmer,

Worcester, Mass.

Dear Sir:-

I have sent you by express this morning two maps of  
Worcester, one being your determination and the other a determina-  
tion made by Mr. C. J. Sprague.

I wish you would compare these and let me have your  
final determination, returning both maps.

I would like all information from you to be given in  
full detail, so that nothing may arise that will prevent our going  
right ahead and getting out estimates after maps have been received  
from you.

Very truly yours,

A. J.

1883.09.04

Sept. 4th.

3

W. J. Sprague, Esq.

Hotel Palmer,

Proctor, Mass.

Dear Sir:-

I sent this morning by express maps of Racine and  
Williamsport for your determination.

It will be necessary to decide in each case upon the lot  
best suited to our purposes.

Please let me have this back again at the earliest pos-  
sible moment, as we are being pressed for estimates.

Very truly yours,



1883-09-04

Sept. 4th.

3

P. D. Dyer, Esq.

St. James Hotel,

Springfield, Ohio.

Dear Sir:-

I have your letter of the 1st. inst.

It seems peculiar that the towns mentioned by you should

be dead towns.

Shall be glad to hear of the progress of your canvass  
in Springfield.

Very truly yours,

S. J.

Bergmann

Sept. 4th.

3

M. E. Glavin, Esq. Pres.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I am in receipt of your favor of yesterday, and in reply would say that Mr Insull telephoned to Bergmann's as promised, but they must have omitted to have informed you of the fact.

We shall commence the shipment of tubes in about three days, and shall start in/ing them as soon as a sufficient number have been received at Lawrence to start the men on.

Very truly yours,

Jal.  
J

1883-09-04

Sept. 4th.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am just in receipt of your telegram of to-day in  
reference to estimates for Williamsport and Bellefonte.

We are pushing them to the utmost and hope to send them  
early next week.

Very truly yours,

*W. B. Shaw*

1883-09-04

Sept. 4th.

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I have your letter of the 1st. inst, and in reply would beg to state that I will retain the temporary fixtures.

I regret exceedingly the delay that has occurred in finishing the Lawrence Station.

We will commence shipping tubes this week, and work will be proceeded with as quickly as possible.

Very truly yours,

*T. A. L.*  
O.

1883-09-04

Sept. 4th. 1883.

Spencer Gordon, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

Referring to your favor of the 1st. inst, I am obliged to you for the assistance you offer.

We have, however, obtained Mr. Soidan( formerly Mr. Clarke's assistant) as superintendent of the works.

Mr. Inall has got the better of the accounts in hand, and has had an expert working on them for a week. I am glad, however, to say that there is nothing wrong with them.

Very truly yours,

*Tal.*  
*J.*

1883-09.04

Sept. 4th. 1883.

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Yours of the 20th. came duly to hand.

You will have received a letter, subsequent to mine of the 4th. ulto., which will fully explain matters at the Edison Machine Works.

What I referred to when you were over here was that Mr. Edison had given Dean a 7 per cent interest in certain work, by which Dean made about \$9,000. or \$10,000. The contract work of the shop, which I referred to, is the piece work, on which the men have made a very great deal of money. So far we have been unable to find out whether Dean had any arrangement with his men by which he got a share of this money. However, we had sufficient other matters to show Edison that it was necessary to give Dean the "G.B."

I may say that I have obtained a release from Dean, by which the amount still due him on the arrangement Edison made with him is wiped out. We save \$7,000. by this release, which will go in a slight measure towards what the Edison Machine Works had lost by Dean's dishonesty.

You will see that there is no necessity to give Edison the advice to take strenuous measures, mentioned in the latter end of your letter. He had already taken the advice before your



1883-09-04

Sept. 4th. 1883.

2

letter came to hand. And the advantage of the change  
is already apparent.

Very truly yours,

S. I.

1883-09.04

Sept. 4th.

3

George H. Bliss, Esq. General Mgt.

Chicago, Ills.

Dear Sir:-

I have your letter of August 15th, with enclosure from Mr. A. J. Smith, in relation to the inaccuracies in the blue print of Appleton.

Will you please ask the President to make the corrections he speaks of on the map?

I would suggest that you should not buy a lot until you first communicate with us and give us an opportunity to calculate whether it would be a good position for our central station, as you might purchase a lot which would raise the cost of the conductors to a very high figure, owing to its location.

Will you please hurry forward the information asked for about Noonah lots on August 15th., also send us a map of Appleton as soon as possible.

Very truly yours,

*J. A. K.*  
*J.*

158309-04

Sept. 4th.

3

Sheer, Gordon, Esq.

P. O. Box 5411,

Boston, Mass.

Dear Sir:-

I have your letter of the 1st, September.

As you desire it, we will leave all matters in connection with the wiring at Fall River to yourself. You should wire for a 200 ohm lamp, and in places where there are 100 lights and over, you should put in two separate systems, so that we can take current off from both the A and B side of the three wire system.

Very truly yours,

J. A. L.  
J

1883-09-04

Sept. 4th.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

I have your favor of the 20th, and in reply to same  
would say that the sooner you can leave Paris the better.

There is plenty of work here to do and very few of us to do it.

I am going to write to the Paris Company offering them  
lamps at lower prices.

Very truly yours,

Jal.  
3

1883-09.04

Sept. 4th. 3

Messrs. Hermann & Co.

203 Avenue B, City.

Dear Sirs:-

I was in receipt of a letter from Mr. Katchelor, under date of August 7th, in which he states that he has received a bill for six arc lights complete with globes and carbons, value \$113.25.

He wishes to know if these are Dr. Rosen's arc lights, and says if they are, it was understood between Mr. Navarro and himself that these lamps would be sent as experimental ones, and he was not expected to pay anything for them.

Please let me know what I shall say in answer to Mr. Katchelor.

Very truly yours,



1873-09.04

Sept. 4th.

3

P. M. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Will you please hurry forward the information in reference to lots at Lock Haven and Renovo, sent you about August 10th

Would it not be possible for us to get information of this nature in a shorter time? It seems to me that a month is a good while to keep a man, in order to give the information we ask for.

Very truly yours,

*W. A. C.*  
*J*

1883-09-04

Sept. 1883.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter by August 31st. in reference to  
estimate for Williamsport.

The electrical determination for this place is now being  
made and the estimate will be sent you in a very short time.

Very truly yours,

*J. H. L.*  
3

1883-09-04

Sept. 4th.

3

A. Stuart, Esq. Secty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

On August 10th. I sent you blue prints of Hamilton and  
Corydopolis, and on the 18th. a blue print of Washington C.H., ask-  
ing information in relation to lots. On the 3rd. of August I  
again wrote you asking you to hurry this information, as we were  
waiting for it and could do nothing until it arrived.

Up to this writing it has not come to hand, and I am  
under the impression that some delay has occurred with which you  
are unacquainted. Will you kindly look the matter up, and have  
these maps, with all the information on them, forwarded to me at  
the earliest possible moment, as we can do nothing towards getting  
out an estimate until we receive this information.

Very truly yours,

J. A. H.  
J



1883-09-05

Sept. 5th, 1883

Messrs. Hale & Walcott,  
80 Court Street,  
Boston, Mass.

Dear Sirs:-

Your letter of August 28th, addressed to Sir Grosvenor  
P. Jewroy, has been referred to me, and in reply I beg to state  
that I have heard nothing from Anders. If you will forward the  
commission to me I will see that Milton W. Adams' deposition is  
taken.

Very truly yours,

*T. A. C.*

1883-09-05

Sept. 5th. 1883.

Ernesto Saldan, Esq. Supt.

Edison Machine Works,

104 George Street, City.

Dear Sir:-

Will you please have prepared and sent to me a statement showing the number of armatures you have on hand, what machines they are for and whether class A or B. I also want *the* list of unfilled orders, of which you should keep a copy.

Very truly yours,

*Tab.*  
*J*

1883-09-05

Sept. 5th.

R

A. Stuart, Esq. Secty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

I beg to acknowledge receipt of your favor of September 3rd.

In reference to an estimate for a 1000 light plant, it is impossible for us to make an estimate on a plant of that size, as we have no type of dynamo or engine that will answer.

We can send you an estimate for an 800 light plant or a 1600 light plant. If you will let us know which one of these will be best suited to your purpose we will have it forwarded to you at once.

Trusting that your efforts in regard to Lima will be successful, I am,

Yours very truly,

J. A. C.

1883-09.05

Sept. 5th.

3

E. T. Greenfield, Esq.

252 Avenue B, City.

Dear Sir:-

Will you please send me as soon as possible estimates  
on Blackwells Island, Wards Island and Randall Island.

Very truly yours,

Jag.

1883-09-05

Sept. 5th.

3

Frank S. Marr, Esq. Treas.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

Will you be kind enough to let me have a statement showing the number of consumers of electric light in Sunbury, also the amount of their monthly bills?

I would also like a statement of the monthly expenses of the Sunbury central station.

I would beg to remind you that we are still without a check for the balance due upon our contract, (\$5,400.)

Very truly yours,

L. A. G.

1893-09-05

September 5th. 3

F. J. Sprague, Esq.

Hotel Belmont,  
Brockton, Mass.

Dear Sir:-

I have your letter of September 4th, and in reply would say that I have ordered the wire, blow pipe and rubber tubing to be forwarded to you at once.

In preference to solder, why can you not get this at some local store and charge it up in your expenses?

I have ordered Mr. Friesa to ship you the insulating *tape* that you require.

I also have your telegram of this morning, and have forwarded by express a blank chart of Fall River.

As regards inside wiring, I telegraphed you this morning that we were attending to this ourselves.

Very truly yours,

*T. A. J.*

1883-09-06

Sept. 6th.

3

J. B. Campbell, Esq.

Renovo, Penna.

Dear Sir:-

I was presented this morning with a draft for \$50., drawn by you at Bellefonte, Pa.

I was under the impression that I explained to you one evening in the office here that it was only under exceptional circumstances that I allowed any of my canvassers or other travelling employees to draw upon me for money, owing to the confusion which these drafts cause in the office, even when drawn at one day's sight. I only extend this privilege when there is no other way of furnishing them with money.

If you were to send me your expense account with a little regularity, it would enable me to have a better idea of how your finances stand. I have only received one expense account from you since you started out. These statements should be made to me on the 7th, 14th, 21st, and 28th day of each month, and I expect that in future I will receive them from you in this order, and that you will make no more drafts, except when directly authorized to do so.

Very truly yours,



1883-09-06

Sgt. Gth.

2

P. D. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am in receipt of your favor of the 5th. inst. in reference to the number of lights at Lock Haven and Renovo.

The actual number of lights covered by our district in Lock Haven is 1,810 and in Renovo 730 lights. I would therefore put a 1,000 light plant in the former place and a 500 light plant in the latter.

Very truly yours,





1883-09-06

Sept. 6th. 1883.

The Edison Company for Isolated Lighting,

65 Fifth Avenue, N.Y.

Dear Sirs:-

Referring to your requisition 1,883, under date of September 5th, asking us to repair one "H" armature from the Boston "Herald", I beg to inform you that this armature has its shaft journal on the pulley side badly cut, and it will necessitate turning off, and consequently the bearing boxes now in the machines will not be available. It will therefore be necessary for us to make a new box for the journal, and I shall be glad to know if I have your authority for going ahead with this work.

Yours truly,



1883-09-06

Sat. 6th. 1883.

Gustave Soldan, Esq Supt.

Edison Machine Works,

104 Coerek Street, City.

Dear Sir:-

I am in receipt this morning of a letter from the General Manager of the Isolated Company stating that the armature sent to Baltimore proved to be too short for that machine, and will have to be returned. The pillar blocks, containing the phosphor bronze bearings, will also be returned.

I believe you sent four pounds of Habbitt metal and two sets of Habbittbearings, for which you had no requisition.

Was there any other material sent not covered by an order?

Yours truly,

E. A. G.

1883-09-06

Sept. 6th.

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 1th. inst, and in reply would say that I will do all that I possibly can to send you the estimate for Bellefonte on Saturday morning.

Williamsport is now being determined, and it cannot be returned from Brockton, where I had to send it, and an estimate made out and forwarded to you before either Monday or Tuesday, but you can rest assured that I will do all in my power to further the work.

Very truly yours,

*Tagg*

1893-09-06

Sept. 6th. 3

Messrs. Babcock & Wilcox

30 Courtlandt Street, City.

Dear Sirs:-

Enclosed please find agreement in referenced to our  
message which Mr. Edison spoke to you about yesterday.

Very truly yours,

*T. A. L.*

Enclosure.

1883-09-07

Sept. 7th, 1883.

J. Hutchinson, Esq.

Sir,

Dear Sir:-

I beg to give you the following information which you asked for in reference to the 25 light dynamo:-

The height from the floor is 33 <sup>1</sup>/<sub>2</sub> inches, size of bed-plate 31 x 17 <sup>1</sup>/<sub>2</sub> inches, the pulley is 8 inches in diameter, with 4 inch face, and the armature makes 1000 revolutions per minute.

Very truly yours,



1783-09-07

Sept. 7th.

3

Henry A. Clarke, Esq.

3 Merch Building,

Baltimore, Md.

Dear Sir:-

I beg to enclose you herewith three estimates for Eric  
for 1600, 2400 and 3200 lights, and amounting to \$17,371.36,  
\$40,377.70 and \$54,554.00 respectively.

In making these estimates I have spared no <sup>time</sup> efforts to  
reduce our figures to the lowest possible standard. I wish,  
however, to specially stipulate that in the case of each estimate  
our bid for the street installation is based upon the assumption  
that your Company will obtain for us the necessary permits to run  
our mains and feeders according to the red lines shown in Exhibits  
"A and B," sent you under separate cover.

Referring to our estimate for 1600 and 2400 lights, you  
will notice that the street installation gives a capacity of 3001  
lights, and in both these cases the station is so arranged as to  
allow you to at any time increase your capacity to 3200 lights.

You will notice in EXHIBIT A that our mains stop on the  
north side of Twelfth Street, between Cassellras and Ponch Streets.

In our estimate for 3200 lights the street installation  
admits of a capacity for 3011 lights, in accordance with the red  
lines shown on the map marked Exhibit B.

1893-09-07

2

I would again call your attention to the matter of permits, in accordance with the red lines shown on our exhibits. Should you fail to obtain any of these, and by this means cause any additional expense, it would be necessary for us to charge your Company with it.

Trusting that these will meet your requirements, I am,

Very truly yours,



Enclosure.

1883-09-07

Sept. 7th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Enclosed please find map of Hellenste, Pa. which requires a new determination according to the red lines.

I also enclose all your <sup>papers</sup> ~~papers~~ in reference to that place.

Very truly yours,



Enclosure.



1853-07-07

Sept. 7th.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N. Y.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 5th. inst, and in reply would say that plot No. 2, west of Montgomery Street and north of Third Street, is the most desirable location for our central station. You state in your letter, however, that these lots are on the side of a <sup>high</sup> hill. I should like to know if ~~this hill is~~ <sup>this hill is</sup> composed of rock which would require blasting or whether excavation could be made with pick and shovel. You might find out from some local contractor what he would charge per cubic <sup>yard</sup> ~~foot~~ to reduce a lot with a 40 foot front to the level of the street.

Please let me have this information at the earliest possible moment, so that I can go ahead with the estimate.

Very truly yours,

J. J.

1873-09-07

Sept. 7th.

3

S. H. Eaton, Esq. Pres.

Edison Electric Light Co.

City.

Dear Sir:-

Referring to my interview with you as to the Utica contract and your asking my opinion as to the acceptance of the proposition of the Utica Directors to make a contract with me to put up the plant there for \$37,000., the balance of my estimate (about \$3,000) to be paid by the Light Company, I wish to place on record my objection to this course being pursued in view of the fact that you propose bringing the matter before the Executive Committee for final settlement.

The proposed arrangement would be a good one for the "Construction Department", but a very objectionable one, in my opinion, for the Light Company to accept.

I consider it far better to allow the Utica Company to fall through, rather than have the Light Company accept such a proposal which would most certainly prejudice their future business, whereas the failure to close the Utica contract this Fall would have, under the worst circumstances, but a temporary effect on our business.

Yours truly,

1893-09-07

Sept. 7th.

3

Thomas A. Edison, Esq.

65 Fifth Avenue, City.

Dear Sir:-

I shall be glad if you can make it convenient to attend a meeting of the Board of Directors of the Edison Telephone Company of Europe, to be held at the office of Messrs. R. L. Cutting & Co., 10 William Street, at 4 P.M. on Tuesday the 11th. September.

The purpose of the meeting is to consider the arrangements with Col. George E. Gouraud and the Edison-Gower-Bell Telephone Company of Europe.

Col. Gouraud is now in the City and will attend the meeting and explain the state of the Company's business.

Very truly yours,

*T. A. E.*

President,

Edison Telephone Co., of Europe.

1883-09-08

Sept. 8th.

A. A. Cowles, Esq., Secy.

Ansonia Brass & Copper Co.

10 Cliff Street, City.

Dear Sir:-

Would it be possible for you to furnish us with some of the cable for inside house wiring, as per the last sample you sent us? We want some very badly to use in connection with our central station work, and would like to have it if possible before you shut down.

We require about 750 lbs. of No. 12, about 300 lbs. of No. 10, about 300 lbs. of No. 14 and about 200 lbs. of No. 13.  
very  
We shall doubtless need a good deal more of this shortly.

Will you please let us know by bearer what you can do in relation to the matters

Very truly yours,

Jag.

1883-09-08

Sept. 8th. 8

Spencer Gordon, Esq.

P. O. Box, 3311,

Boston, Mass.

Dear Sir:-

We beg to acknowledge the receipt of your favor of the 8th. inst. in reference to Dean.

Inasmuch as you have sent men to inspection at the request of Mr. Garrison, we presume there is no need to trouble further about the matter.

Very truly yours,

*F. A. G.*

1893-09-08

Sept. 8th.

A. Stuart, Esq. Socy.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 5th. September.

We have no 1000 light plants (unit), and we cannot very well give you an estimate for a 1000 light plant at present.

We think it would be a fatal error on your part not to make provision for future increase, as if you pursued that course the expense of extending your plant will be considerably heavier, than if you put a plant in now with the intention of increasing it later on.

Very truly yours,

*L. A. C.*

1893-09-08

Sept. 8th.

3.

A. Stuart, Esq. Mecty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 8th. September, with relation to our prices which you term very high.

You are entirely in error with reference to our prices on boilers and engines. We have tried every <sup>available</sup> boiler, and find that the Babcock & Wilcox boiler is the only one suitable to our business. It would be absolutely impossible for you to purchase it for the price you mention. Ordinary return flue boiler are entirely useless to us.

With relation to engines, we had considerable experience with different classes of engines, when we first started our business, and as the result adopted the Armington & Sims engine, which, considering the results obtained from it, is by far the cheapest in the market.

Very truly yours,

J. A. C.  
J

1883-29-08

Sept. 15th,

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to acknowledge the receipt of your favor of September 5th., and are obliged for the suggestions contained therein.

With relation to anything in connection with the station, whether it is inside wiring, automatic regulators or anything else, we wish you would be kind enough to make suggestions to this office only, inasmuch as you were sent to Brockton to start the station, and were given no authority to deal with other work. <sup>we</sup> would much prefer that you should discuss matters <sup>and inside</sup> outside of your province with us and not with Mr. Garrison or any other Brockton gentleman. We are always only too glad to receive suggestions from you, which your valuable experience may lead you to make, and should you think it desirable for any information to be communicated to Mr. Garrison, if you will inform us of it, we will have it sent from here. We shall esteem it a favor if you will pay particular attention to the above instructions.

As regards inside wiring, as Mr. Garrison has taken upon himself the responsibility of ordering men from Boston to do this



1893-09-08

work, there is no necessity for us to deal further with the subject.

In relation to the matter of men to assist you in wiring the station, we do not see the advisability of going either to New York or Boston to find them. We think one man would be able to give you all the assistance you will require. You could "break in" a local carpenter in a short time, and thus save a great deal of unnecessary expense. When Mr. Andrews was starting the Sunbury central station, he only required one man to assist him, and we presume that you can work with equal economy.

CHARLES. We note your remarks about forwarding you clean charts, and will in the future see that your wishes are complied with.

We fail to understand your remarks in reference to automatic regulators, and shall be glad if you will explain them.

We do not quite grasp your ideas in reference to switches. We are certain that we have ordered all the switches necessary for Brockton, and (for your information) <sup>we clarify what</sup> we have ordered as follows:-

- 8 Feeder Switches, 10 new style house changing switches, 2 new style plug switches, 10 small plug switches, 3 dynamo changing switches, 6 small plug switches for lightning protector,

1883-09-08

Sept. 8th.

3

*for middle fence wire*

4 No. 000 plug switches, <sup>1</sup> 2 inch <sup>3</sup> and 1 double dynamo changing switch of new design. The bank of test lamps requires 2 large plug switches and 10 small plug switches of different design. These switches were ordered on Mr. Andrews experience at Sunbury.

It is our desire to have uniform electrical connections for all our stations, and if you are unacquainted with the fixtures which I have decided upon, and which experience has proved to us to be the best for our business, we shall be very glad to give you what information you want at any time you may ask for it.

Is the breakdown switch you refer to the one designed by Mr. Andrews? *(the double dynamo changing switch)*

We wired you last night requesting you to send two determinations of Fall River, and stating that we had ordered all the wire which you wanted. I am notified this morning, by the Western Union Telegraph Company, that you left Brockton last night for New York, and that the telegram is undelivered. I presume, however, that there is some mistake in the matter.

We wish you would very kindly bear in mind the remarks we have made in reference to suggestions. We are only too glad to receive ideas from any source whatever, as long as their flow is directed to this office, but we particularly wish to reserve to

1883-09-08

ourselves the privilege of distributing these ideas among people  
only indirectly connected with our business, as the improper use  
of them may cause us very serious inconvenience.

Very truly yours,

*T. A. C.*

1883-09.08

Sept. 8th. 3

W. S. Andrews, Esq.  
Shawokin, Penna.

Dear Sir:-

I beg to acknowledge the receipt of your favor of the 4th. inst, and note what you say in reference to the Sunbury engineer and motorman.

I am having printed copies made of the dynamo questions and answers and "instructions", and will send you copies as soon as I receive them from the hands of the printer.

Very truly yours,

J. A. G.

1883-09-08

Sept. 8th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I have your letter of August 7th, and have been obliged to delay answering it in order to obtain information from Mr. Bergmann in reference to arc lights.

That gentleman says that he received an order for these lamps from you orally, and that he only knows you in the matter, but if Mr. Navarro wishes to have the charge transferred to him, he (Bergmann) will do so. The lamps referred to are Dr. Rodos' patent.

Regarding dynamos, our "H" machine gives 400 amperes; we are winding with larger wire and will get from 450 to 575 amperes easy without any other change. We are running, with perfect success at Louisville, 14 "H" machines, with a constant load every evening of 400 amperes.

You can tell Bailey that, taking <sup>to account</sup> in costs, we will discount Hopkinson and go him ten per cent better on anything he can do.

Yours very truly,

T. G. E.

*Electricity - Motors*

1883-69-08

Sept. 8th.

3.

George S. Ladd, Esq.

222 Sansome Street,

San Francisco, Cal.

Dear Sir:-

I have your favor of August 30th, and in reply beg to state that nickel as a conductor is seven times worse than copper and four times more expensive. Mr. Burbage has no authority from us to make a statement that a nickel mine would be of great value to for electrical and telegraphic purposes and that it is superior to copper as a conductor, as such is not the case.

The instructions for canvassing towns in the interest of the electric light were sent you some time ago.

Very truly yours,

*J. L. G.*

1883-09-09

Sept. 9th.

3

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sirs:-

Referring to my contracts with Messrs. Biedermann,  
Zurich and Cherbules with reference to the introduction of my  
system of electric lighting into Switzerland, I hereby accept and  
ratify Article Seventh of the Statutes of your Company concerning  
the transfer consented to and accepted for the price of 135,000  
francs, and I also accept and ratify the rest of the Statutes  
of your Company.

Very truly yours,

1883 09-09

Sept. 8th.

3

Messrs. Bergmann & Co.

202 Avenue B, City.

Dear Sirs:-

Please send me by bearer ten (10) copies of your catalogue and give me your best rate of discount for our Swiss Company. They are at present buying their material from the London Company, and I have no doubt but what I can get their trade for you if you will put your discounts as high as possible.

Very truly yours,

*J. A. K.*



22. St. -

1883-09-10

Switzerland

Sept. 10th.

3

A. Achard, Esq. Prost.

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sir:-

Referring to my letter to you of this date giving prices, since I wrote that letter I have received from Messrs. Bergmann & Co. the following:-

"We are anxious to get the trade of the Swiss Company, and will agree to furnish goods in our catalogue to them at thirty (30) per cent discount, excepting sockets, cut-outs and switches, on these, as an extra inducement, we will make the discount thirty two and one half (32 1/2) per cent.

These prices are better than Messrs. Bergmann & Co. have ever quoted to anybody, and I trust that they will prove acceptable to you.

The above cancels that part of my former letter which refers to Messrs. Bergmann & Co's discount as being twenty five (25) per cent.

Messrs. Bergmann & Co. ship goods charging for boxing and cartage on same, but this is a very small amount.

1883-09-10

2

I would suggest that you prepare a telegraph code for use between your Company and myself.

Anything that you may require from here I shall be glad to attend to the shipment of, and in fact would suggest that all orders should be sent to me and payments made to me, in order to avoid confusion and to insure your getting exactly what you require.

Very truly yours,

J. A. E.

1883-09-10

Sept. 10th.

3

A. Achard, Esq. Messrs.

Societe d'Appareillage Electrique,  
Geneva, Switzerland.

Dear Sir:-

I have received your various letters as to the formation of your Company, and have recently received from my Attorney, Mr. Goddard, a full report on the matter, which enables me to reply to the various questions raised by you.

First, as to material. Within the last few months we have made a great many changes in connection with the construction of our dynamo machines with a view to increasing their capacity for a given investment, and in many cases is increasing the capacity and reducing an investment. We have so far turned out a 400 light machine, which we are prepared to sell to you for \$1,500., P.O.B., New York, and also a 100 light machine, for which we should charge you \$400., P.O.B., New York. At the present time we are about constructing a number of 25 light machines, 50 light machines, 300 light machines and 600 light machines. At this writing it is impossible for me to give you the exact prices of these machines, but immediately our work on them is

1883-09-10

2

advanced sufficiently, I will send you quotations for your guidance. With relation to the two machines first referred to, I have ordered for you detailed drawings of same, which will be sent forward at the earliest possible moment.

It has been quite impossible for me to write you earlier on this matter, owing to the fact that at the time you applied for information, the construction of our dynamos was in a state of transition from one style to another, and the data at our command was not sufficient to be of any material assistance to you.

With relation to sockets, electroliers and other sundries, I send you by this mail, under separate cover ten copies of Messrs. Bergmann & Co's catalogue, which will give you exactly the information you ask for. The prices quoted are subject to a discount to you of twenty five (25) per cent, which is the very best terms given by them to any of our companies.

I also send you, under separate cover, copies of Messrs. Armington & Sims engines, for which I beg to quote the following prices, N.Y., New York City:-

1	2 x 6 Engine.....	575
1	2 x 10 Engine.....	775

1883-89-10

3

1  
 9 2 x 12 Engine.....\$ 1,050.  
 10 x 13 Engine..... 1,000.

Each of the above engines have one driving pulley on.

13 x 13 engine with 1 driving pulley each side.\$1,450.  
 1  
 14 2 x 13 engine with driving pulley on  
 each side.....\$2,000.  
 1  
 14 2 x 13 engine without any driving  
 pulleys and arranged for connecting  
 directly with steam engine..... 1,900.

With relation to lamps, I beg to quote you prices as follows:-

Ten (10) Candle Lamps.....\$ .50 each  
 Eight (8) and Sixteen (16) Candle Lamps... .50 "  
 Thirty Two (32) Candle Lamps..... .75 "  
 Fifty (50) Candle Lamps..... 1.00 "  
 One Hundred (100) Candle Lamps..... 1.50 "

The above prices for lamps are F.O.B., New York.

The reason we charge sixty cents for ten candle lamps,  
 is that it is but recently that we have started to manufacture  
 them and the quantities in which we make them are comparatively  
 small and the difficulties of manufacturing are considerably  
 greater than in the case of the eight and sixteen candle lamps.

I also send you, under separate cover, six(6) complete  
 sets of our Bulletins, from Bulletin No. 8, those coming before

that number being out of print.

I further send you six (6) copies of the catalogue of our Isolated Company, and also six (6) copies of a small pamphlet on electric lighting.

I will endeavor to send you, in the course of a few days, a set of electro-types for your use.

With relation to your inquiry as to whether I can give you the right to sell installations in countries where I have no companies to exploit my patents, I beg to inform you that my contracts are of such a character that I am absolutely precluded from giving you the concession you ask for.

If you will please advise me of any further information that you may require of me, I will see that it is promptly sent you.

I enclose you herewith reduced photograph of our 400 light machine, which will give you some idea of the construction of same. The 100 light machines are got up in the same style, and immediately I have photographs of them in hand, I will send you copies.

Very truly yours,

*Yah*

Enclosure.

823-C9-10

Personal.

Sept. 10th.

3

Frank H. McCormack, Esq.

Williamsport, Penna.

Dear Sir:-

I enclose you herewith two letters of even date, one addressed to the Promoters of the Edison Electric Illuminating Company of Sunbury, and the other addressed to you as President of the Edison Electric Illuminating Company of Sunbury. The latter must not be presented to the Directors of the Sunbury Company, until the Promoters give their permission to the arrangement I propose for their consideration.

I see no prospects of the immediate settlement of my accounts, and I make the proposition contained in the two letters enclosed as the only solution of a difficulty at once embarrassing to the Sunbury Company and annoying to myself, inasmuch as I put in the plant under a contract which lead me to look for full payment immediately my work was finished. Understanding from my Secretary, Mr. Insull, that the Directors of the Sunbury Company were willing to accede to any fair proposition which would enable me to get my money or something to represent it, I think the enclosed is the best way of amicably settling the matter.

Very truly yours,

Gale

[ENCLOSURE]

1883-09-10

Sept. 10th.

3

To The Promoters of the Edison Electric Light Co. of Sunbury,  
Sunbury, Penna.

Dear Sirs:-

Referring to my letter to the President of the Sunbury Company of even date, I make the proposition contained in that letter on the condition that the stock to be received by you (as Promoters) from the Edison Electric Light Co. shall be allotted to me, or if allotted, transferred to me in proportion to the amount of stock allotted to me by the Company in settlement of my account against them. For example, if it takes three tenths (  $\frac{3}{10}$  ) (after increasing the stock) of the capital stock of the Company to enable them to settle my claim, the amount of the Promoters shares I am to receive in addition, shall be three tenths (  $\frac{3}{10}$  ) of the total amount of shares of the Sunbury Company received by you as Promoters from the Edison Electric Light Co. under your arrangement with them.

Very truly yours,

*G. A. B.*



[ENCLOSURE]

1883-09-10

Sept. 10th.

Frank H. McCormick, Esq. President.

Edison Electric Illuminating Co. of Sanbury,  
Williamsport, Penna.

Dear Sir:-

I am anxious that the indebtedness of your Company to me (about \$8300.) should be settled forthwith. I beg to propose that the balance of ~~subscribing~~ in your Treasury be allotted to me in part payment of the above amount, the price to be allowed for said stock being the par value of the shares. To pay for the balance remaining after that, your Company must increase their capital stock to such an amount as to pay me (in stock) for said balance.

Please have this matter brought before your Directors and acted on as early as possible.

Very truly yours,

L. L. L.

1873-09-10

Spot. 10th Dec. 3

Gustave Seldan, Esq. Supt.

Edison Machine Works,

104 Goerck Street, City.

Dear Sir:-

It is very important that I should have tracings of the 100 light machine and the 400 light machine, so as to enable me to take a number of blue prints or send to send to our various foreign companies. If you can oblige me by getting these out at the earliest possible moment, I shall esteem it a favor.

Very truly yours,

A handwritten signature, possibly 'S. J.', in dark ink.

1883-09-10

Sept. 10th. 3

W. D. Dwyer, Esq. Frost.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

Finding that the wire, that I wrote you about, would not be ready in time to enable you to take advantage of it in the first case, I sent a wireman to Shamokin to start the wiring there, so as to enable us to get sufficient lights on when to make a showing when the station at Shamokin is put in operation.

I was very much surprised and somewhat annoyed at finding that that wireman would have been sent back to New York by you without your communicating with me at all in the matter.

In order that we may get some lights started at Shamokin at the earliest possible date, I would strongly advise that you send to Northbury for a man who is doing the wiring there and have him wire up several prominent buildings to start the work.

It is only a matter of a very few weeks before we will be able to supply you with a very much cheaper material for wire work, but in the meantime I think that your business would suffer very much if the station was left in its present state until that material is ready.

Very truly yours,

J. A. T. J.

1893-09-11

Sept. 11th.

3

P. D. Oyer, Esq.

London, Ohio.

Dear Sir:-

I have your letter of September 5th, dated at Springfield, Ohio, and in reply beg to say that I do not at all approve of Mr. Stuart's ideas as to how a city should be canvassed. If you canvass a city of the size of Springfield for only 1000 lights, if they should ever want to increase their plant, it would necessitate another canvass, while our present style of doing business enables us to at any time to make a desired increase in the capacity of a plant with very little additional expense. It will therefore be better for you not to adopt Mr. Stuart's suggestions.

I should like very much to take a trip to the Cincinnati and Louisville Expositions to see our plants in operation. I hear excellent reports from all quarters, and from them judge that we are making a very fine show. Unfortunately, however, I am so busy that I cannot even run into the country for a few days to recuperate, notwithstanding the fact that I am very nearly "played out" with hard work. I hope, however, that the spell of cold weather, which we are at the present moment enjoying, will have a bracing effect upon my constitution and enable me to hang

1883-09-11

2

out" without taking any holidays.

Very truly yours,

SS

1883-09-11

Sept. 11th.

J. R. Campbell, Esq.

Williamsport, Penna.

Dear Sir:-

I received this morning your letter and map in reference to Renovo.

Have the Renovo Company, by their charter, the privilege of running wires according to the red lines shown on our maps. I find that you have not given me this information, and should like to know if we can run through private property, and if there are any obstructions in the way and the nature of them?

I wish you would always be careful in sending reports upon a town to include this information, as without it it is impossible for us to make a proper estimate of the cost of the street installation.

Very truly yours,



1883-09-11

Sept. 11th.

3

A. A. Cowles, Esq. Secty.

10 Cliff Street, City.

Dear Sir:-

I have your letter of the 10th.

The price named by you for the cable seems very high indeed. Cannot you possibly make it for us for less than 48 cts. per pound? We desire the cable put up in coils. We order by Birmingham gauge.

Very truly yours,

1883-09-11

Sept. 11th. 1883.

The Edison Co. for isolated lighting,  
City.

Dear Sirs:-

Referring to your favor of yesterday's date, it is very uncertain when we shall be able to take in hand the changing over of the "X" and "J" machines. Even if the "X" machine is changed into a 100 light machine it will of necessity be a more expensive machine than the present 100 light machine and by no means so good looking.

Yours truly,

1883-09-11

Sept. 11th.

3

J. P. Bailey, Esq.

33 Ave de-l' Opera,

Paris, France.

My dear Bailey:-

I have your letter of August 10th, and note what you say in reference to an International Society in London.

I do not believe that your scheme would be feasible in that place, but I think that Paris might do.

In reference to the other points in your letter, Major Eaton is writing you, embracing them all.

Very truly yours,

*Gale*



1893-09-11

Sept. 11th.

3

W. H. Rich, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I have your letter of September 8th, and have ordered forward the glass for the oilers and the gibs, which were broken in transit.

I presume by this time you have received the 35 feet of 3 inch rubber tube which you asked for.

I think it would be as well for you to obtain office furniture in Brockton, keeping the cost of same under \$100.

I do not understand what the oil cans are which you ask if you shall return.

I also have your letter of September 1st, enclosing sketch showing the disposal of indicators and switches in the Brockton central station.

Very truly yours,



1883-09-11

Sept. 11th.

3

Messrs. Borgmann & Co.

202 Avenue B, City.

Dear Sirs:-

Then can you supply us with a <sup>1</sup> 4 horse power motor  
and a <sup>1</sup> 4 horse power motor with connections complete? We want  
to send them to Brockton.

Very truly yours,

1883-09-11

Sept. 11th.

3

N. S. Keith, Esq.

41 Liberty Street, City.

Dear Sir:-

Will you please let me have shipping directions for the  
plating machine built at the Machine Works.

Very truly yours,

J. A. B. J.

1883-09-11

Sept. 11th.

3

G. W. Wilber, Esq.

Corner 4th. & Rodman Sts.

Fall River, Mass.

Dear Sir:-

I enclose you herewith map of Fall River, and I have enclosed in a red line the district that I want you to canvass first. After you have canvassed this district you can go ahead with the rest of the city, but I want you to take in a larger area than is shown on this map. I believe the city extends considerably further South, North and East than is recorded on the enclosed, and if you consider it advisable to go further West, I want you to do so. I am particularly desirous of having this canvass made with all possible despatch, and therefore think it would be better for you not to make it in book form, but to get it out on sheets, which you can work up every night and send us the data in the morning, so that we can go right ahead with the map as this information comes to hand and have it completed by the time your canvass is all sent in. I trust that you will do everything in your power to rush this through, as it is imperative that we should have the estimate ready by the 21st. After the map is completed it has to be sent to Boston for the electrical determination to be made, and you will therefore see that no time is to be lost

1883-09-11

2

in forwarding your notes.

Please be careful in mentioning dwellings to give the class and if you come across any bridges state whether they are draw bridges or not.

I notice in your canvases of Natick that in some places you canvass a store for the first time say at 8.05 P.M. or later and mark it "closed". It would be well for you to find out if the store closes at 3 P.M. or if it remains open until 7 or 7.30.

Very truly yours,

1883-09-11

Sept. 11th.

Messrs. Bergmann & Co.

403 Avenue B, City.

Dear Sirs:-

I am in receipt of a letter from Mr. Andrews, under date of September 4th, and I beg to quote the following for your information:-

"I hope that Bergmann is pushing forward the three ampere meters and the pressure indicators, also the double main switch for spare dynamo and my standard volt meter. I shall soon be waiting for the ampere meters &c. I wrote a letter to Mr. Clarke concerning these instruments yesterday, and I trust that Mr. Bergmann will see that my directions concerning them are carried out or we shall have trouble."

Mr. Andrews at the moment is in the City, and will doubtless call upon you with reference to the above.

I have this day sent to Herr Oscar Von Miller, Munich, Bavaria, bill of lading for one box of electrical material shipped by you on the 5th. inst. by the "Red Star".

Very truly yours,

S. L.

1883-09-11

Sept. 11th. 3

S. R. Bailey, Esq.

Oxford, Conn.

Dear Sir:-

Your favor of the 7th. inst. came to hand yesterday.

With relation to what you have to say about my telephone, all the comment I can make on this is that you are entirely in error. I have never taken advantage of yours or anybody elses inventions or suggestions. I am altogether too busy to consider any matters outside of my own inventions, and would therefore suggest that you should patent your ideas and work them out yourself.

Very truly yours,

1883-09-12

Sept. 12th. 3

Frank H. McCormick, Esq. Pres.

Edison Electric Illuminating Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

I have your letter of the 5th. inst. in reference to  
providing insurance on the Sunbury central station.

The value of the machinery, together with the building, is  
about \$8,000., and one per cent would be a fair rate on a risk  
of this character.

Very truly yours,

*T. A. G.*

1883-09-12

Sept. 12th.

3

Philip Richardson, Esq.

Box 586,

Woburn, Mass.

Dear Sir:-

I have your favor of the 10th. inst, and in reply beg to state that we have changed one of our machines to a plating machine for Mr. Keith for metallurgical purposes. It gives 8 2<sup>1</sup> volts pressure and 455 amperes of current. The price was \$1,300.

Trusting that this will give you all the information you require, I am,

Very truly yours,

*T. A. C.*



1883-09-12

Sept. 12th.

8.

W. D. Rich, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I have your letter of the 10th. inst, and in reply would say that I do not understand your statement that there is no material at Lawrence to commence work on.

The bedplate and washers for the 14 1/2 x 18 engine, together with washers for bolts which were ordered for the 11 1/2 x 10 engine, went forward on the 11th. inst. The bolts and pipes for both engines went forward on the 24th. inst. Air chamber covering was forwarded on the 26th. and bolts for the dynamo on the same date. Test lamps on the 27th, and with one or two exceptions, the engine room and meter room sundries have all been despatched.

I have just been notified by Messrs. Babcock & Wilcox that the boiler was shipped <sup>yesterday</sup> ~~on~~ morning, and you can have the 14 1/2 x 18 engine anytime <sup>after</sup> this week by notifying Messrs. Armington & Sims to ship it. The steam piping should go forward to-morrow.

I have advised you right along of the shipment of this material, and I shall be glad to know if any of it has gone astray, as in that case we must have tracers sent out for it immediately.

1883-09-12

Sept. 12th.

8

The Electric Tube Company have already commenced to  
ship tubes.

I shall be glad to know if there is anything else that  
you have not received which will prevent your going ahead with the  
work.

As requested, I enclosed you herewith a plan of the Law-  
rence station, and also two bird prints of the underground con-  
ductors. You will recollect that these conductors stop at  
Jackson Street, those beyond that showing the extension which the  
Lawrence Company propose to make later on.

Very truly yours,



1883-09-12

Sept. 12th,

3

Edison Electric Light Co.

London, E. C. England.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

8 candle lamps....	\$ .40
16 candle lamps.....	.40
10 candle lamps....	.30
32 candle lamps....	.60
50 candle lamps....	1.00
100 candle lamps....	1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the Ports of London, Bristol, Liverpool, Glasgow or any other English Port to which shipping rates are not higher than those to the Port of London.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices,

1883-09.12

2

but find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also. Those quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*T. A. C.*

P.S. If you are prepared to order 5 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of London, Bristol, Liverpool, Glasgow or any other English Port to which shipping rates are not higher than those to the Port of London.

1883-09-12

Sept 12

3

Deutsche Edison Gesellschaft,  
50 Leipziger Strasse,  
Berlin, Germany.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

8 candle lamps.... 3.40

16 candle lamps.... 4.40

20 candle lamps.... 5.30

32 candle lamps.... 6.00

50 candle lamps.... 1.00

100 candle lamps.... 1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the ports of Hamburg, Antwerp or Genoa.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices

1883-09-12

2

but find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices of these lamps also. These quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*T. A. L.*

P.S. If you are prepared to order 8 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the ports of Hamburg, Antwerp or Genoa.

1883-09-12

September 12th.

3

A. Schard, Esq. Prost.

Societe d'Appareillage Electrique,

Geneva, Switzerland.

Dear Sir:-

Referring to my letters of the 10th., I beg to supplement the prices quoted for lamps by the following:-

If you will order from us lamps in lots of 10,000, we will give you the following prices:-

8 candle lamps....\$ .40

16 candle lamps..... .40

16 candle lamps..... .50

32 candle lamps.... .60

50 candle lamps.... 1.00

100 candle lamps.... 1.50

If you give us an order for 25,000, we will give you the further advantage of delivering the lamps free on board in the Ports of Hamburg, Antwerp or Havre.

Very truly yours,

*J. Schard*

P.S. If you are prepared to order 4 candle lamps in lots of

1883-09-12

2

10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board in the Ports of Hamburg, Antwerp or Havre.



1883-09-12

Sept. 12th.

3

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

In view of the improvement in the manufacture, and the increase in the demand for lamps, I have arranged with the Lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

4 candle lamps,....	\$ .40
10 candle lamps,.....	.40
16 candle lamps,....	.50
32 candle lamps,.....	.60
50 candle lamps,....	1.00
100 candle lamps,...	1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on board in the Ports of Hamburg, Antwerp or Genoa.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these prices,

1883-09-13

2

But find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the Lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also. These quotations are to take effect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

*Jab.*

P.S. If you are prepared to order 8 candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) cents each, and if ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of Hamburg, Antwerp or Genoa.

1883-09-12

Sept. 12th.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge receipt of your favor of the 11th inst, and regret to state that it was necessary for us to obtain a new determination of Baltimore, and we were consequently unable to forward you the estimate on Saturday as promised in the previous letter.

I will send you estimates of Williamsport to-morrow morning for 1900 and 2400 lights.

In reference to Oil City, I presume you are aware that we have as yet made no canvass of that place. I suppose, however, you will notify us when you want this done.

Very truly yours,

*B. Talcott*

1893-09-12

Sept. 13th.

3

Major S. B. Eaton,

City.

Dear Sir:-

I am in receipt of a letter from Messrs. Harris & Robinson, under date of September 11th., asking us to make a canvass of Norwalk, South Norwalk and Waterbury, and shall be glad to know if we have your authority to go ahead and do the work?

Yours truly,

J. A. G.

1883-09-12

Sept. 12th. 3

A. A. Cowles, Esq. Recty.

19 Cliff Street, City.

Dear Sir:-

I beg to acknowledge receipt of your favor of the 11th. inst. in reference to triple covered wire, and will send you the sample that you ask for in a day or so.

Very truly yours,

A handwritten signature, likely of the sender, in dark ink. The signature is stylized and appears to be 'S. J.' or similar.

1883-09-12

Sept. 12th.

3

W. H. Douty, Esq. Pres.

Shenokin, Penna.

Dear Sir:-

I wired you this afternoon that you should order through the Edison Electric Light Company, 250 lamps of ten candles each to start on.

In order to explain to you my reason for sending this telegram, I would say that the lamps have to be ordered through the Light Company, as the Edison Lamp Factory cannot recognize orders unless they are received through that Company.

Very truly yours,

*T. A. B.*

1883-09-13

Sept. 13th. 3

W. R. Upton, Esq.

Harrison, N. J.

Dear Sir:-

I beg to acknowledge receipt of your postal card of the 13th, inst, and in reply would say that Mr. Edison is going to Shamokin on Monday, the 17th. prox.

Very truly yours,

1883-09-13

Sept. 13th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Wrocton, Mass.

Dear Sir:-

In reference to your several communications received during the last few days, I regret to say that Mr. Insull, who has these matters in hand, is at the present moment ill and confined to his bed. He will, however, be in the office again to-morrow or next day, when he will send you the necessary answers.

I have your letter of to-day's date giving the size of the coils for the regulator designed by you and have referred a copy of it to Hermann & Co.

Very truly yours,



1883-09-14

Sept. 14th.

3

W. D. Rich, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I have your letter of Sept. 13th., and in reply would say that the parts of the "H" dynamo which were lost in transit will be sent you immediately. The delay in sending these was caused by the Superintendent of the Machine Works not understanding what you meant by "gib". I showed him your sketch and he now understands what it is that you want.

In reference to oil cans, please return those you have on hand at Brockton to John Ott, care Bergmann & Co., 293 Avenue B, New York.

I note your remarks in reference to Lawrence, and I presume that you can start on Monday to erect the boiler.

I telegraphed Samuel L. Moore & Sons this morning to send me a duplicate shipping receipt for the washers and bolts. When I get this, I will send it to you and you can have the railway agent at Lawrence send out tracers for the missing material, providing it does not arrive in the meantime.

I will write Messrs. Armington & Sims in reference to the stop valves on their 1 1/2 x 13 engine, and have it made the pro-

1883-09-14

2

per size.

The Lawrence meters went forward yesterday, and I think the Brockton meters were shipped at the same time, in any event you will receive them in a day or two.

Freight bills came to hand "O.K."

Very truly yours,

*Lab. J*

1883-09-14

Sept. 14th.

3

J. R. Campbell, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter of the 12th. inst., and forwarded to you yesterday morning another chart of Williamsport.

In reference to the Williamsport Company securing themselves the necessary concessions to erect poles on private property, I would state that we much prefer to obtain these permits ourselves, but if the Williamsport Company desire that we shall allow them to obtain the permits, we will do so, but simply stipulate that our bid for the street installation will only hold good providing the concessions are obtained in accordance with the lines shown on our exhibits.

Enclosed find check ~~for~~ 50 for \$50. to cover your expenses.

Very truly yours,

*L. A. G. y*

Sept. 14th.

George W. Elias, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

I was informed by a gentleman, who boarded at the Palmer House, Chicago, that the lights installed in that building go out two or three times a week. I presume that you have been unaware of this fact, and I write this letter in order that you may have the matter corrected.

Very truly yours,

*Faby*

1883-09-14

Sept. 14th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brookton, Mass.

Dear Sir:-

We have the pleasure to acknowledge your favor of the 6th. inst, which would <sup>have</sup> been replied to earlier but for circumstances which have interfered to prevent this being done.

AUTOMATIC REGULATOR. We do not believe at all in the use of automatic regulators in central stations whilst the regulator is in such a condition. In our opinion the automatic regulator is a necessary evil in isolated plants where there is great variation number of lamps on at any one time and the variations in speed. Both these difficulties are comparatively overcome in our central stations, and I much prefer hand regulation. With relation to the hand regulator, I enclose you herewith a sketch which will show you the method in which Mr. Andrews connected up the regulator at Sharnokin, where the same blunder had been made in this connection as the one you now have. You probably can set it right by pursuing the same course as Mr. Andrews did.

With relation to men, if you find it cheaper and more economical to use wiremen, you can of course have them. What we want to do is to have the work done as well and as economical as

1883-09-14

3

possible

The connections, such as designed by Mr. Johnson, have been ordered for you and will be shipped immediately they are ready.

With relation to the switches, we enclose you herewith a rough sketch of the arrangement of the station at Shamokin.

All reference in letters written you have been partly based on the method pursued at Shamokin.

Will you please see if you have switches to answer for the work at Brockton, following generally on the same character of work as that done at Shamokin, and a knowledge of which the enclosed sketches will give you? If you have not we will order such switches as you may intimate as being requisite. It is our impression, however, that you have all the switches, and in fact several over, except possibly several plug switches for cutting the bank of resistance in and out.

The reference in our letter of the 5th. Mr. Sanbury was in error, Shamokin should have been mentioned, as the criticism on switches required by you was based on what had been found to suit the purpose at Shamokin.

Yours truly,

*Tabby*

Enclosure.

1883-09-14

Sept. 14th.

3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

This will introduce to you Mr. Johnson, whom we are sending to Brockton to take charge of the wiring of houses under your direction. We desire that Mr. Johnson should wire enough houses to make a showing on at the start, and if he requires any assistance, that he should obtain it locally, subject to your approval.

When I get to Shrewsbury, I will choose a local man, who is to be taught our method of wiring. You will of course see that Mr. Johnson follows out generally the plans laid ~~out~~ at Sunbury, with relation to inside wire work.

Yours truly,

Yag  
y

1883 09.14

Sep. 14th.

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Please impress upon Mr. Jenk's the fact that we must not cut in any customers the total of whose lamps will not give us at least two hours and thirty minutes average for 300 days. If he is going to cut in any one who wnts the light, the station will simply be a commercial failure.

The maximum number of lights that a party ever burns at any one time, divided by the total lamp hours in 300 days should give not less than 730 hours per lamp. Of course a party may have 50 lamps connected, but never have more than 10 lighted; if that is the maximum, then those are the lamps to be counted.

Do you see the point?

Yours truly,

*E*



1873-27-15

Sept. 15th.

3

G. P. Lowrey, Esq.

2 Broad Street, City.

My Dear Mr. Lowrey:-

I enclose your herewith copies of letters to  
Sir John Lubbock and Theodore Waterhouse, in reference to the  
fusion of the Edison and Swan Companies in England.

Very truly yours,

Enclosure.

1893-09-15

Sept. 15th,

A. A. Cohen, Esq. Secty.

15 Cliff Street, City.

Dear Sir:-

In reply to your favor of September 15th., I beg to say that I will speak to Mr. Egoni in reference to the cost of tape.

Regarding cotton for outside wrapping, I agree with you that plain uniform color will look much better than the "bamboo" pattern, and shall be glad if you will choose something that will answer.

Very truly yours,

1883-09-17

Sept. 17th. 1883.

S. B. Fazio, Esq.

P. O. Box, 3311,

Boston, Mass.

Dear Sir:-

I have your favor of the 14th. inst. in reference to the brushes on the 400 light dynamo.

At the Louisville Exposition we have fourteen "H" dynamos, eight of which carry 400 lights each, and on which we are using the brushes you speak of. I am informed that these brushes work beautifully and the commutator polishes. We make all our tests with the brushes you have.

It would be impracticable to use a set of "J" brushes on the "H" machine. The "J" brush is soldered to the trough, while the "H" brush is movable in a shorter trough which is fastened to the brush-holder.

Very truly yours,

1883-09-17

Govt. 17th. 3

G. W. Wilber, Esq.

Corner 4th. & Bodden Sts.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 16th. inst, it would be  
as well for you to send us a special report on Fall River.

Very truly yours,

1883-09-17

Sept. 17th. 3

Messrs. Harris & Robinson,  
Room 2, Trust Co's Building,  
Hartford, Conn.

Dear Sirs:-

Referring to your letter of the 13th. inst., I beg to say that we mean by "House Lights" the number of lights used in a house. It is impossible for a canvasser to get into a house and find out how many lights are burning, but by deciding the character of the house he can make a very accurate estimate.

I send you under another cover duplicate maps of Hartford, Danbury and Southington, also the Isolated plant books you asked for.

In reference to estimates, we have no available copies at the moment which we could send to you, and we are so pressed with work that it would be impossible for us to get these done at once. I will, however, send you copies as soon as I can get some made.

Very truly yours,

1883-09-18

35 Fifth Avenue,

New York, Sept. 18th, 1883.

J. W. Mackenzie, Esq.

Cable Time Telegraph Co.,

Temple Court,

6 Beekman Street, City.

Dear Sir:-

In consequence of the <sup>pressing</sup> ~~business~~ nature of my business, and many things that I am interested in, I would like to surrender all interest in your transmitter for England, on your reimbursing me any amount that I may have incurred up to this writing in connection with said invention. I am compelled to take this course, owing to my time being so fully occupied, that I feel it is impossible for me to deal with the matter in a manner satisfactory either to you or myself.

Very truly yours,

S. J.

1883-09-18

Sept. 18th. 3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.  
City.

Dear Sir:-

I am in receipt of a letter from Mr. Batchelor, and I beg to submit to you the following extracts for the Defect Report:-

"The 'C' dynamos all came to Milan without having the bearing places of the shafts tallowed. They were wrapped with paper and then outside of this was some tallow, but not inside. The sea air so rusted them that it took over two months to get them to run without heating. They ought to tallow them well and afterwards wrap them with a piece of felt that has been dipped into melted tallow..

Armington Engines. The Armington engines came not entirely together and there were no marks to tell which piece belonged to each engine."

Dynamos. Under the commutator bars we have always put japanned paper instead of mica in the small sizes of dynamos. I find that in many cases this paper is carbonized and sometimes even we have noticed nothing wrong with the machine particularly.





1883-09-18

Sept. 18th. 3

W. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Enclosed please find map of Southington; which requires  
an alioyical determination, according to the red lines. It is  
to be all pole lines.

Yours truly,

*J. A. C.*  
7.

1883-09-18

Sept. 18th. 1883.

Gustave Saldan, Esq. Mupt.

104 George Street, City.

Dear Sir:-

I am in receipt of a letter from Mr. Batchelor in which he says that the "C" dynamos all arrived at Milan without having the bearings places of the shafts tallowed. He says they were wrapped with paper and outside of this was some tallow, but not inside. The sea air so rusted them that he says it took him over two to get them to run without heaving. He says that with the next shipment you ought to tallow them well and afterwards wrap them with a piece of felt that has been dipped in melted tallow.

Franklin On Dynamos. Mr. Batchelor states that under the commutator bars <sup>they</sup> have always put japanned paper instead of mica, in the small sizes of dynamos. He says that they find in many cases this is carbonized and sometimes even they have noticed nothing wrong with the machine particularly <sup>they are</sup> using mica in them now.

Yours truly,

*F. A. G.*

1873-09-18

Sept. 18th. 3

Messrs. Armington & Sims,  
Providence, R. I.

Dear Sirs:

I am in receipt of a letter from Mr. Hatcholer in which he states that the Armington engine arrived in Milan not entirely together and there were no marks to tell which piece belonged to each engine.

Will you kindly have this matter adjusted in future, and oblige,

Very truly yours,

*Gal*

1893-09-18

Sept. 18th.

3

Societe Electrique Edison,

Paris, France.

Dear Sirs:-

I beg to acknowledge receipt of your favor of the 31st. August in reference to electric railway. In reply I would say that it is impossible for me to take this matter up, as I have too much work on electric light business.

Things are "booming" here in village and city plants.

Very truly yours,

*Tak*  
7

1883-09-20

Sept. 20th.

3

T. A. Edison, Esq.

Weyers National Hotel,

Shawokin, Penna.

My Dear Edison:-

Your telegram came to hand asking for chemicals, motors, scales &c., and the various articles enumerated have been shipped. The motors were kept back purposely; the rest of the articles should have been shipped but for a blunder, which I suppose I must take the credit for.

Soldan started to test the 300 light machine yesterday, but found a cross in the armature, and when I left the Works this morning this trouble had not been fixed. But he promises to let me have a report on a partial test this afternoon, but up to this writing it has not yet come to hand. As soon as I get it I will send it to you..

I saw Dowlen to-day in reference to the cable, and he says it is impossible to state exactly when they can deliver some of it, and as it is a new thing he is depending entirely upon the factory as to when it will be turned out. If it was an article of ordinary manufacture he could name a time, but says he will push it through as quickly as possible.

1883-09-20

Sept. 20th.

2

I was in the central station to-day and Chinnuel was trying a pair of the new brushes. There was quite some heat from them, and one brush had got burned very badly indeed. When I left, however, the brushes were working a little better, and he was carrying 600 or 700 lights on the brushes from the district and not from the test lamps upstairs.

I had a man in here to-day from Fitchburg, Mass. He runs the Thomson-Houston business and wants to get up Edison Companies in about ten towns. He came on here at the suggestion of Elias, and I think that when you get to Brockton next week you can make a "dicker" with him. I am to see him to-morrow again. He is one of those real live fellows, and he would have closed a contract with me on the spot. Of course such difficulties as terms he has got to be talked into.

I hope you are enjoying the bad "grub" and the "two-for-one." I will go to Dolmenico's to-night and eat a double sized dinner, so that you can imagine you have had part of it.

I enclose you the latest emanation of the Engineering Department. It is a most beautiful piece of blue printing, and will no doubt go a long way towards cheering you on in your

1883-09-20

3

Lonely way in Shamokin.

Yours very truly,

1883-09-20

Shamokin

Sept. 20th, 1883.

Thomas. A. Edison, Esq.

Waverly National Hotel,

Shamokin, Penna.

My Dear Edison:-

Since writing to you this afternoon I have seen Solder, and he says that he has tested the 300 light machine. He ran the armature at 1100 revolutions and got 200 amperes out of it at 113 volts. The armature was perfectly cool at the time he left the shop to come up to see me, and the machine had been running 1<sup>1</sup>/<sub>2</sub> hours. He seems highly elated over the result of the test, as he says it has come out exactly in accordance with his calculations.

Yours very truly,



1883-09-21

Brockton

Sept. 21st. 3

M. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Your two very lengthy letters of the 18th. and 20th. came duly to hand.

With relation to the extra tubes desiradete be laid by Mr Garrison in place of the pole lines proposed to be put up and provided for in his contract with me, I have under instructions from Mr Jenks ordered the Tube Company to lay 2000 feet of tubes in such streets as Mr Jenks may indicate. I have also ordered from Mr Krugosi, at the instance of Mr Jenks, 30 lengths of two wire service tubes for use at Brockton. I understand that these were ordered on your suggestion. In your letter of the 20th. you says it is desirable to use mostly three wire service, but inasmuch as the order has been placed for two wire service it is impossible to cancel it without considerable loss to the Tube Co. or Mr Garrison. I think the matter had better stand as it is at the present time, namely, to use two wire service as much as possible.

The connections devised by Mr Johnson have been ordered from Hermann & Co. and will be sent forward to you as quickly as

possible. The feeder safety catches have also been ordered for you and these will be forwarded as quickly as they are turned out. The switches asked for in your letter of the 10th. have also been ordered. The feeder indicators are also being pushed forward as quickly as possible and will be sent to you at the earliest moment. The three house changing switches which you refer to were ordered, but the order was subsequently cancelled, and the switch designed by Mr Andrews will take its place.

With relation to Lawrence, the first part of my contract, known as Order No.1, and which I am now putting in, calls for two 400 light machines, later on I am to put in two more 400 light machines, the "K" machines which they now have acting as a spare. If they want 200 light machines instead of "K" machines they will have to buy them. I am writing to Mr Lord on this subject by this mail.

Your report on his wiring corroborates what I have heard from other sources. I will go into the question of the switches and wiring required at Lawrence by you and have the thing fixed up so that you will have no trouble when you come to do the work.

I cannot understand why in one letter you suggest the use of two wire service and in the next of three wires. Acting on your first letter as above stated and under Mr Jones orders,

1893-09-21

3

we have ordered 25 or 30 lengths of two wire services, and propose using the tubes which were sent on for three wire services to extend the system as above referred to..

The reason that things are shipped to Mr Rich is that he pays the bills. I should imagine you could easily arrange with him what cases you are to open, inasmuch as almost all the stuff that comes from Bergman & Co's is for your use.

Exact account should be kept of the time and material used by Johnson in wiring the various houses that he is engaged on.

Very truly yours,

*Lab.*

*Dynamos*

1883-09-21

Sept. 21st.

3

Comitato per le applicazioni dell'elettricità Sistema Edison,  
via Manzoni, 12 A,  
Milan, Italy.

Dear sirs:-

Referring to your several cables and my cables thereto confirmed elsewhere, I beg to inform you that the reason that the 400 Ampere dynamo (they are known as the "H" machine) has been ready to ship for some weeks past. The steamer which should have taken it ran aground on the Long Island shore and has only been got off within the last few days, and it is now discharging its cargo preparatory to taking a return cargo for the Mediterranean. Immediately this or an earlier vessel sails, I will advise you of the shipment of the machine.

With relation to a "C" dynamo, I have several in my shop practically completed, but it will take me some forty days to get an *Armington* engine to attach to one. I therefore cabled you that I could ship one forty five days after order if there was a steamer sailing, and my price for same would be \$2,250., free on board in New York, payment to be made here when dynamo is completed.

At the request of the Ansonia Brass & Copper Co. I added

11883-99-21

to my cable that they desired payment for wire ordered by you on shipment in New York. They will sell you the wire at the same price which they quoted to the Paris Company, namely, 27 cents per pound, and your bill will amount to about \$2,870. In consideration of paying cash in New York, they will allow you a discount of one per cent. This is precisely the arrangement made by me on account of the Societe Electrique Edison, when they were ordering wire from the Ansonia Brass and Copper Co.

Referring to your letter of the 25th September, I have ordered the circuit breaker and uprights for you as requested therein. They will be shipped from here in about ten days.

We have now made a new machine giving 100 lights, and which I shall be glad to sell you in quantities of not less than five (5) for \$400, a machine, F.O.B. New York, payment to be made in New York on presentation of the invoices and bills of lading to your agents here. We are now making a 25 and 30 light machine and also a 200 and 300 light machine. Our experiments on these machines are practically completed, and as soon as we have models out we shall be glad to quote prices to you for same.

We have written to Mr. Jones with relation to the new recording amperometer. We have not turned out any new meters, the only alteration being a cheapening of the case, which is now made

1883-09-21

made of tin instead of cast iron.

We have ordered for you the 2,000 lamps requested, and they will go forward in the course of a week or so.

Our impression is that your orders should come through the Societe Electrique Maison, of Paris. Will you please communicate with them on this subject and advise us with relation to same.

Yours very truly,

*T. A. J.*

1883-09-21

Sept. 21st.

8

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

Referring to our cable correspondence elsewhere con-  
firmed, patent No. 25 is of too great importance in this country to  
allow of being dropped in Europe. It covers the fundamental  
principles of our automatic regulation, and under the circumstances  
our Company here could not give their consent to the dropping of  
the patent.

Very truly yours,

Tak f

1883-09-21

Sent. 21st.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

With relation to cables confirmed elsewhere, I beg to inform you that the prices given by me for fibres were in accordance with instructions which I had received from the Edison Lamp Co. Two or three days later, after talking it over with Mr. Upton, it was arranged to quote a lower price. When your letter came to Insull stating that Upton had given you a price lower than that mentioned by me or the Lamp Factory, I at once communicated with the Lamp Factory, and decided, after a consultation with them, to send you the cable above referred to.

As to the drawings for the 25 and 50 light dynamos, although the experiments on these machines have been made, we have not as yet got the models out, but we are expecting to get them out in a week or two and immediately this is done drawings shall be sent to you. The drawings of the 100 and 400 light machines will, I think, be sent to you by Tuesday's mail. The changes at the Machine Works have caused some delay in getting out these things, which you must accept as our apology for not sending them to you



1883 09 21

2

earlier.

We yesterday tested the 300 light machine, which gave 300 amperes at 112 volts and the armature running at 1100 revolutions. This is a machine with one pair of cores and will be sold for somewhere about \$1,000. We hope to send you drawings in about two weeks, or may be a little earlier.

I cabled for your proxy for a meeting <sup>of the</sup> ~~of the~~ Light Company on the 24th, September, which meeting is to vote on ~~an~~ an increase of the Company's stock from 2720,000. to 31,000,000. Thinking that the proxy would not reach New York in time I cabled you this morning to sign a Power of Attorney authorizing me to vote your shares at any meeting of the Light Company, and requesting you to have Consul Walker confirm signature, so as to enable me to go on your Power of Attorney. I shall hope to get your reply to-morrow.

Very truly yours,

T. A. B. I

1893-09-21

Sept. 21st.

Deutsche Edison Gesellschaft,  
96 Leipziger Strasse,  
Berlin, Germany.

Dear Sirs:-

Referring to our cable correspondence elsewhere confirmed, I beg to advise you that your cable to me of the 14th, September was unintelligible, and I cabled you to that effect on the same day. I have no cable at this writing and am anxiously awaiting receipt of your letter explaining your desires in relation to 100 light dynamos.

I have ordered for your account a 13 x 13 engine in compliance with your cable to me of the 16th. I am expecting to send you foundation plans by the next mail, at which time I hope to be able to advise you at what date the engine will be shipped.

With relation to the 25 and 50 light machines, my experiments on these machines have been finished, and I will push forward the models as quickly as possible. Immediately they are ready, I will ship them to you and advise you of same.

Very truly yours,

*Edison*

1783-09-21

Sept. 21st.

3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

Your postal of the 18th. inst. came to hand this morning.

The small engine, that you have, was to be used to run the "K" machine now used in your station, and my contract does not call for the providing of an "H" machine for this purpose.

I can supply you with two 200 light machines in the course of about three weeks or a month. meantime I shall be very glad to loan you two old "H" dynamos, providing you will pay the freight on some each way. If you decide to use two dynamos on the small engine you now have, I presume it will be necessary for you to get another pulley, as if your <sup>1</sup> 2 x 10 engine is of the same construction as those we ordinarily use, it has only one pulley on. Will you please let me know your wishes in relation to this matter?

It is very desirable that you should order from us sufficient service tubes to connect the houses, which you are now wiring, on to the mains. Will you please send me a general order to supply these, as I think it would be better to leave it to the Electric Tube Company's option as to what they should send to Lawrence for this purpose, so as to obviate the delay consequent

1973-09-21

2

Upon sending an order for such services that you may require put in. If you will please attend to this matter immediately it will greatly facilitate your work, as the services can be laid while the mains and feeders are being put in. If this course is pursued the expense will be less than if the services are left until the whole system is completed.

Mr. Rich writes me that it is desirable that we should put in the foundation for the 14 2 x 12 engine and the two <sup>1</sup> "H" dynamos, which come under Order No. 2, at the present time, in order to save us expense when filling your second order. I presume there is no objection to our pursuing this course, providing that we carry the expense of this work until such time as you should give us an order to finish the whole of the work specified in our contract. Can you give me any idea as to when you are likely to order the completion of the plant, as I am at present out of "H" dynamos, and would like to know when you ~~xxx~~ will probably call on me for them for this purpose.

Very truly yours,

*John I.*

P.S. At this writing it is impossible for me to give a firm price for the 200 light machines, but they will probably cost about \$700, each, but ~~xx~~ as to this I cannot tell at the moment.

1883-09-21

3

as I have not got out my models at this writing.

Battery, St.

1883-09-26

Sept. 26th.

3

Paul D. Nyor, Esq.

Empire House,

Akron, Ohio.

Dear Sir:-

I have your favor of the 24th. inst., and hope you will be able to capture the hotel man who has gone wrong on "storage batteries".

On Saturday night last we started up at Shemokin. Mr Edison returned this morning and speaks very highly of Shemokin as a place for lighting and the great possibilities of making money there.

On Monday night we shall start the Brooklyn station and a week or two after the Lawrence station. So you see things are progressing pretty lively up here.

I hope you are feeling better, and would suggest that if you are at all sick that you should slacken up a little on the work.

Very truly yours,



1883-09.56

Sept. 21th. 3

George W. Bliss, Esq. General Supt.  
Chicago, Ills.

Dear Sir:-

Referring to your favor of the 17th. inst., which would have had my attention earlier but for my absence from town at Shanghai, I beg to state that the gentleman who reported to me about the Palmer House was a Director of our Company for two years, and thoroughly understands the difference between an arc and an incandescent light, and he positively states that our lights go out quite often. Inasmuch as he boarded at that hotel for some time, he must have had ample opportunity of knowing exactly what occurred.

Yours truly,

*Laing*

1873-09-26

Sept. 26th.

3

W. J. Bull, Esq.

18 Market Street,

Harrisburgh, Penna.

Dear Sir:-

*Suddenly*  
I had to leave Harrisburgh to go to Brockton to start a station there. The Shrewsbury station was started on Saturday night. ~~but~~ I think you had better wait about ten days until they get some connections connected and then you might go up there with your friends and see how the thing runs.

Very truly yours,



1583-09-26

Sept. 28th.

5

W. D. Rich, Esq.

Caro Nelson Electric Tr. Co.

Lawrence, - Mass.

Dear Sir:-

Mr. Edison has just returned from Shamokin and reports the starting of the station there in good style. He is very much pleased with everything there, and says that he looks forward to the Shamokin station being very successful. He wished me to draw your attention to several points, which he made a note of while in Shamokin. He says that the dynamo should be leveled so that the arms will not run to one end. When water piping bearings, he thinks you should put an extra cock so that a rubber hose 4 inch in diameter can be put on in addition, so that if the oil cup is taken off the hose can feed water right into the bearings. He thinks that the pump should be so arranged that it can take steam from either boiler, (where more than one boiler is used) at Shamokin it was only possible for the pump to take steam from one boiler.

Yours Truly,

1883-09-26

Sept. 25th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Referring to your undertaking to dispose of the bonds of the Shenokin Company, I shall be glad to hear from you as to exactly what arrangements you have made for the disposition of those bonds, inasmuch as it is my desire to make an immediate settlement with the Shenokin Company.

Yours truly,

Talc

1783-07-26

Supt. 25th. 1883.

Gustavo Soldan, Esq. Supt.

104 Second Street, City.

Dear Sir:-

If it is not objectionable I should like to have an extra hole on dynamo bearings an inch or so from the oil cup with a screw plug for passing water to bearings through a flexible tube, and thus render it unnecessary to unscrew the oil cup in case it should be thought desirable to use water on the bearings to prevent heating.

Yours truly,

*W. L. G.*

1883-09-26

Meters

Sept. 26th. 3

Messrs. Hermann & Co.

203 Avenue N, City.

Dear Sirs:-

Do not tie a knot in the flexible cords inside of the meters in future. You have been told of this twice. The copper wires attached to the wires in the 41 light meters are too long. I think you should cut off about  $\frac{3}{4}$  of an inch, but you can find the absolute length by testing. The wooden plugs inside meters are japanned wet and stick so that we cannot pull them out of the meters. They plugs should be japanned and dried before putting in.

Yours truly,

Za, E.

1883-09-26

Sept. 26th.

3

J. U. Mackenzie, Esq.

Care Times Telegraph Co.

Temple Court, City.

Dear Sir:-

Can you give me the recipe for the duplicating ink?

I want to get some made for office use.

Yours truly,

Tall

1883-09-26

Electric Pen

Sept. 28th.

3

John P. Rogers & Co.

62 India Square,

Boston, Mass.

Dear Sirs:-

I have not got on hand this moment the recipe for making my duplicating ink, - but I have written to the assistant who used to make it for me to see if he has got a copy of the recipe. Immediately I hear from him I will communicate with you.

Your letter has remained unanswered since its receipt, owing to my absence from the city.

Yours truly,

Yale

1883-09-26

Sept. 26th.

3

J. I. Green, Esq.

Tahoe City, Lake Tahoe,

Placer Co. Cal.

Dear Sir:-

Referring to your inquiry as to motors, I beg to state that we can furnish you with a motor, but I do not see exactly how you could use it, as you say nothing about where you proposed getting your electricity from to run the motor.

Yours truly,

*W. A. G.*

1893-09-26

Ore Milling

Sept. 26th.

3

Franklin Mallon, Esq.

115 West 5th. Street,

Leadville, Col.

Dear Sir:-

Referring to your favor of the 16th. inst., Mr. Edison desires me to state that he has not got a machine which will separate oxide of iron due to roasting iron pyrites. His machine only separates magnetite, but undoubtedly such a machine as you desire could be designed if the business promised to be of sufficient magnitude to justify of the work.

Yours truly,





1883-09-26

Sept. 26th.

William F. Brewster, Esq.,

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

Your letter of the 23rd, inst. came to hand this morning.

I am very sorry that I did not see Captain Hoffinger. I am doing nothing about canvassing New Orleans. Will you please find out from Captain Hoffinger exactly what he expects done in the matter, and let me hear from you on the subject.

I trust that you will be successful in putting through the St. Louis Company. For sometime passed we have had draughtsmen engaged upon the detailed drawings of the station there, so that immediately the matter is closed up we can proceed with the work.

The Louisville map is a very heavy one to make, but I am promised it in about five or six days, and I shall then want some lots looked up for central stations.

Nothing has been done about Newell's Park lately.

I will look the matter up and see that it is pushed.

We can take care of all trouble from water or other causes at New Orleans.

Yours truly,

L. A. J.

1883-09-26

Sept. 20th.

3

C. P. Britton, Esq. Secty.

Dept. Public Charities & Correction,

66 Third Avenue, City.

Dear Sir:-

Referring to your favor of the 25th. inst., our engineer is busily engaged in making the plans and estimates for lighting Hart's and Ward's Islands, and we shall hope to have them in such shape as to be able to send them to you in the course of a few days.

Very truly yours,

Lal.

1883-09-26

Sept. 20th.

3

Charles Hatchelor, Esq.

Paris, Franco.

My Dear Hatchelor:-

Your letter of the 11th. came duly to hand.

We cabled to you for \$2,000. because we were in a hurry  
of a box, and bills were on the way equalling that amount.  
Since the money was received, however, we have given the Societe  
Industrielle credit for the overcharge on the fibres, which leaves  
only about \$200. in their favor which cannot be considered any  
great amount, as the <sup>Account has</sup> ~~amount~~ run the other way on my books  
for months at a time.

Very truly yours,

*Yale*

1883-09-26

Sept. 26th. 3

Henry A. Clarke, Esq.

Erie, Penna.

Dear Sir:-

Your favor of the 21st. September has been referred to me for reply.

The estimate for the installation of a central station plant at Erie is put in as a whole and is not to be accepted in lots. The tender is made in one account, the items being simply given for your convenience and guidance as to what makes up the estimate. If the Erie Company require any items struck out, I shall be very glad to consider the matter.

It will be quite impossible for me to get to Erie to attend the meeting. When your Company is organized and they are prepared to make a contract for the installation of a plant, my private Secretary, Mr. Insull, will go on to close the matter with them, unless it can be done by correspondence.

Very truly yours,

Lafayette

1883-27-26

Sept. 26th,

3

S. C. Lynch, Esq.

60 Washington Street,  
Chicago, Ill.

Dear Sir:-

Referring to your favor of September 24th., I shall be  
very glad to look into the matter of the Persett Conduit, and will  
talk the matter over with Mr. J. R. Burdick when he calls to see me.

Yours truly,

*W. A. J.*

1883-09-26

Sept. 20th.

3

C. C. Sims, Esq. Supt.

Arrington's Sims Co.

Providence, R.I.

Dear Sir:-

Would it not be a good idea to have two extra valves and rings for each of our central stations? If so, would the pistons fit? How about ~~the~~ extra Rabbit shelves for all engine bearings, concerning which I spoke to you?

Yours truly,

*John J.*

1883-09-27

Sept. 27th.

3

H. M. Doubleday, Esq.

Edison Exhibit, Louisville Exposition,  
Louisville, Ky.

Dear Sir:-

Will you please supply me with the information which  
Mr. Clark desires in relation to the cards sent by you, returning  
the cards at the same time.

Yours truly,



Enclosure.

1883 09:27

Sept. 27th.

Charles Hatchelor, Esq.

Ivry-sur-Seine, France.

Dear Sir:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I was thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Very truly yours,

*Yale*



1883-09-27

Sept. 27th,

3

Compagnie Continentale Edison,  
Paris, France.

Dear Sirs:-

Your favor of the 10th. Inst. came duly to hand, and in reply I would beg to state that it seems to me that the action of the Russian authorities with regard to Set No. 2 places your Company in a position to remedy in Russia the mistakes which have been made in other countries with regard to this important patent, by discarding the great mass of unimportant matters and confining the case to the points which experience have shown to be of great value. I consider this point to be:-

First. The placing of an incandescing conductor in an exhausted chamber made entirely of glass with leading in wires connected into the glass, and

Second. The driving out of the incandescing conductors of the occluded gases by raising said conductor to incandescence during the operation of exhausting the lamp globe.

The specification describes lamps of carbons as well as those of metals, and care should be taken to make it clear that the points are intended to be covered without regard to the material

1883-09-27

23

of which the incandescing conductor is made. The matter I think should be made the subject of one division. If a second division is decided upon, the motor connections shown in figure 73 should be made the subject of it since. I consider that arrangement as the next in importance.

The following should also be covered. The arrangement of a motor shown in a shunt around a definite resistance in the main line and the use of a compensating resistance in the circuit with the coil. The motor shown in figure 74 could also be included in the case.

I see nothing further of any considerable importance in the case which could probably be patented in Russia;

Yours very truly,

*L. J. J.*

1883-09-27

Sept. 27th.

8

L. W. Serrell, Esq.

140 Nassau Street, City.

Dear Sir:-

Referring to your letter of the 23th. inst., will you  
please let me know what the first account in the Nicholson case is?

Very truly yours,

J. A. J.

1883-09-27

Sept. 27th.

Societe Electrique Edison,  
Paris, France.

Dear Sirs:-

I am in receipt of your favor of the 24th; August, and have cabled the Milan Company to send me a cable remittance for \$3,000. to cover the amount of my account against them, less the four regulators and the Armstrong & Sims engines. I have not, however, at this writing received any reply, and accordingly cabled you to-day to this effect, as confirmed elsewhere.

I have received from the Milan Company an order for lamps. I think it would ~~certainly~~ facilitate matters, and be certainly a convenience to myself, for all orders of the Milan should come through the medium of your office. Will you please endeavor to arrange this for me, and greatly oblige,

Yours very truly,

*T. A. Edison*

1883-09-27

Sept. 27th.

3

W. L. Garrison, Esq.

P. O. Box 3647,

Boston, Mass.

Dear Sir:-

Mr. Edison and myself will leave for Brockton on Saturday night, it being Mr. Edison's intention to start the Brockton station on Monday night.

I propose to return to New York on Tuesday, and if you can conveniently arrange matters so that I can bring back with me a check for \$15,000., it will be a very great convenience to us.

Very truly yours,



1883-09-27

Sept. 27th.

Henry A. Clarke, Esq.

Erie, Penna.

Dear Sir:-

Your letter of the 24th. September has been forwarded to me at the above address.

If you have any enquiries to make about my estimates and will address them here, you will always get a prompt reply. I stay such a short time in a place that it is seldom that you can reckon on catching me.

As I wrote you yesterday, the bid made to you is made as a whole, and I should hardly feel disposed to have it cut up, although of course I should be glad to consider any proposition that the Erie Company may have to make. Our experience, however, in doing this has so far been very bad. At Shamokin, where the local Company undertook to do a great deal of the work themselves, we had a very great deal of trouble, and our Superintendent had to go there to superintend the work, notwithstanding it was the local company's place to do it. The delay in consequence of the course they pursued was very great, and decided me to refuse to take contracts in the future, unless the whole of the work was left for me to do.

Very truly yours,

*W. L. G.*

1883-09-28

Sept. 28th.

3

Societe d' Appareillage Electrique,  
Geneva, Switzerland.

Dear Sirs:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Very truly yours,

G. A. K.

1893-09-28

Sept. 30th.

3.

German Edison Gesellschaft,  
93 Leipziger Strasse,  
Berlin, Germany.

Dear Sir:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 ("H") light machine out in the course of two or three days, when I will send a set of blue prints of those.

Very truly yours,



1873-09-29

Sept. 20th.

3

Messrs. Harris & Robinson,  
Room 3, Trust Co's Building,  
Hartford, Conn.

Dear Sirs:-

I have your letter of the 17th. inst., in reference to the Hartford and Southington estimates which I promised to send you on the 20th. My engineer, Mr. Campbell, has been ill for the last four days and is still confined to his bed, and it is impossible for us to tell when he will resume work. His absence from the office was the cause of the estimates not having been forwarded to you. I regret the circumstances exceedingly, but as you will see it was a matter over which I had no control, and I may add was totally unlooked for when I made the promise to send the estimates to you on the 20th.

I am obliged for the information you give in reference to Bridgeport, and will refer that matter to Mr. Hutchinson of the Insulated Company.

Very truly yours,



Private Secretary.

1893-09-29

Sept. 29th.

3

Friend Conkling:-

I am very desirous of obtaining a contract to light one or two of the City Institutions where I am certain I can effect a considerable saving to the City and give better satisfaction.

Their gas system being especially defective on Hart's and Ward's Islands, for which I have made a tender. Would you object to giving me a letter of introduction to Mr. Ross one of the Commissioners having such lighting in charge. With a statement that we are reliable people, our statements are to be relied upon and that we will undoubtedly perform our work in a satisfactory manner. Of course they may be reasonable why you would not like to do this, if so all right.

Very truly yours,

1872-09-29

Sept. 29th. 3

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

I regret to say that through the illness of my engineer, Mr Campbell, who has been off duty for the past three days, and it being impossible for us to tell when he will again report at the office, the estimates for Newburgh have been delayed. I am doing my best to get them out for you and will send them at the earliest possible moment, but with this explanation you will no doubt recognize the circumstances we are in and the great pressure under which we will have to work in order to keep pace with our business during Mr Campbell's absence.

Very truly yours,



1883-29-29

Sept. 20th.

Paul D. Dyor, Esq.

Empire House,

Akron, Ohio.

Dear Sir:-

I have your favor of the 17th. inst. acknowledging receipt of the report blanks and books.

In reference to the latter, I did not intend to alter the form of your canvassing, and you can use these as blank books if you choose, but in sending them to you I thought you would probably be able to utilize them to advantage by entering the rights on the books first and copying them on to the form afterwards. You can, however, please yourself.

Very truly yours,



(883-10-01

October 1st.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

I have your letter of September 28th. in reference to details of building the central station at Newburgh. Mr. Campbell, my engineer, who compiled the estimate for this building, is still confined to his bed, consequently I am unable to send them. The additional estimates are also being delayed for the same reason but all of them will go forward to you at the earliest possible moment.

Very truly yours,

Tag  
Y

1883-10-01

October 1st. 3

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

Mr. Edison and Mr. Insull are both in Brooklyn and will probably not be back until the end of the week. Campbell is still "laid up", and I have got my hands so full that it is impossible for me to touch the Newburgh estimates, at least for a day or so. I will do all I possible can to send them to you, but you see the fix I'm in and the difficulty of meeting your requirements with the despatch which generally characterizes our business.

Very truly yours,

*Ans*

1883-10-02

October 2nd,

3

Samuel Insull, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Insull:-

I have received all your numerous communications, and this morning went down to Hermann's to see about pressure indicators and meters.

I find without waring Andrews that he requires six pressure indicators of the new style or five of the old style, as he took one of the old style with him when he was here. I ascertained this from a letter which arrived a day or two ago and which was among the bundle you gave me. Klein or somebody down there mixed our meter orders all up, but fortunately I got there before anything serious had occurred. As it is there must be returned from Brockton one 50 light meter. He sent five 0 light meters too many to Shamokin and he sent ten 0 light meters in excess of our order to Jawronco. I will have all those returned according to their instructions at their expense. Klein at first thought we had mixed our orders up, but upon analyzing it thoroughly he found that they had made the mistake themselves, and, consequently, walked into a "shipper".

I have seen Bradley this afternoon and he goes to Brockton to-night. I have given him two hydrometers and he is getting all the tools necessary for finding out the bugs in the conductors, from Chinnoek. He is going to Brockton by rail. The Shamokin hydrometers were sent some weeks ago.

Referring to the ~~order~~ <sup>order</sup> ~~for~~ <sup>for</sup> ~~switches~~ <sup>switches</sup> for Brockton, I was not asked to order 12 large plug switches for feeders by Sprague. He stood beside me while I wrote the orders for material which he required, and those were not mentioned. I, however, find that there were only 8 instead of 12 (as you stated) of the old style feeder switches ordered for Brockton, and have consequently ordered 10 of the new style plug switches from Bergmann to be shipped at once.

I have ordered 100 Johnson connections in accordance with your letter, and have given proper instructions as to the shipping of 50 of them. Bergmann has on hand at the moment 50 of these connections from the last lot ordered. These go forward to Lawrence at once.

In reference to test bank switches, Bergmann told me that those were sent forward with some other material to Sprague's address on Saturday. On Monday I told him to send two more, as they had probably gone astray, although it seems strange how they



1883-10-02

3

could have done so. I trust that by this time they have been received.

I received your Godsend in the shape of \$5,000. and have had same placed to our credit without meeting any opposition at the bank.

I have had all the baby stuff packed in ice and forwarded to the address you gave me. It will be a "cold day for you" when it gets there.

Referring to the amount which I placed in the Fall River estimate for "Tools" for repairs to underground conductors", at the time I made up the Fall River estimate I had only one bill from Russi for tools sent to Brockton, and I was under the impression that this included all the tools which had been sent there. I should, however, have looked more closely into the matter and I would have soon when I made the mistake. Can we not supply tools to the amount of our estimate for same, and if they want more they can purchase them? I say this merely as a suggestion to try and help myself out of the scrape, but privately my opinion is that we will have to supply the whole lot for about one half the price, and that it is through a "damned bull" of mind that we have got to do it.

1883-10-02

I saw Mr. Johnson this morning at Bergmann's, and I told him about the success that attended the starting of the Brockton station, and also said that you informed me that Rich deserved tremendous credit for the work he had done. Mr. Johnson wanted to know where Sprague came in and Bergmann told me to tell you-- "I will never mind what he told me to tell you, it would sound much better over a telephone!"

I have not yet heard of your closing the Fall River contract, but I hope to be made aware of the fact before going to bed to-night.

Everything here is going on all right and there is nothing special to bring you back if you are not fully prepared to come.

Hughes just came in and says he is going to stay right here until he gets the Newburgh estimates. I have not had a chance to touch them, and I do not know that I should care about doing it if I had. Campbell has the matter partly in hand, in fact nearly finished it, and if I take it in hand now it will be necessary for me to go through it right from the start, and my hands are too full to attempt anything of that kind. I expect Campbell will be here in a day or two. I wrote to him last night and practically told him that he must come soon, notwithstanding

1883-10-02

5

the advice I gave him towards the end of the letter to the effect that he should not go out of the house until quite well. I tried to convey to him the idea that the Department could not run very well unless he was there himself or else keep ~~somebody~~ of these under him posted in such a manner about what he was doing as to enable them to know a little about the business in his absence. As it is now he carries most of the information which I want to get at, such as details of the construction of the station, in his head.

I will get the bills of lading from Hayward, Perry & Franklyn to-night, have been unable to obtain them before that ~~will~~ have the money in the bank to-morrow morning.

I am delighted to hear about the success you have met with in Brockton.

I will go thoroughly through the Lawrence orders, and see that there are no "hitches" when the time comes for starting up there.

I enclose two letters from Mr. S. J. McCutcheon. Upon the arrival of the first one, which is the double pagod one, I sent him a note saying that Mr. Edison was in Brockton and giving him Mr. Edison's address. The second one is a reply to my note, above your signature. I do not know whether they are of any

1883-10-02

6

great importance or not, and as I have no means of finding out,  
I presume the best thing to do is to send them to you.

Very truly yours,

*Gale*

1883-10-62

*Telephone - Foreign*

Office of the

Edison Telephone Company of Europe, Limited,

New York, October 2nd, 1903.

To the Directors of the Edison Telephone Co., of Europe, Limited,

Dear Sirs:-

Referring to your letter of September 14th., in which you authorize me to settle with Colonel Gouraud on the best terms possible as to the division of the 175,000 shares of the Edison-Bower-Hall Telephone Company of Europe, Limited, I beg to say that I have fully discussed the matter with Colonel Gouraud with a result that he is not satisfied with any other than an equal division for the reason set forth in his letter to this Company, dated July 30th. (Extract Annexed)

I am myself agreeable to settling with Colonel Gouraud on that basis, but I find that I am personally interested in some of the shares that he will receive, arising out of the fact that he and I jointly contributed in the sale to the Edison-Bower Hall Telephone Company of several countries which did not belong to the Edison Telephone Company of Europe, Limited, namely, Denmark, Sweden, Norway and Portugal, and because of this personal interest I am unwilling to take the responsibility of alone settling with Colonel Gouraud as authorized by your letter above referred to. I have therefore to request that you will be good enough to sign the enclosed letter, if you approve of same, and return it to me at your early convenience.

*W. H. Dickinson*

1883-10-02

October 2nd.

Paul A. Dyer, Esq.

Equity House,

Akron, Ohio.

Dear Sir:-

I am in receipt of your several favors of the past week, and I am sending to your Address twelve new catalogues, <sup>Isolated</sup> and I would impress upon you the necessity of using those very judiciously, as they cost 34 cents apiece.

Mr Stuart has been here for the past week obtaining information, and I think we have satisfied him on a great many points about which he was in doubt, and I have reason to believe that affairs in Ohio will be pushed to more advantage now than they ever have been before.

We are much obliged for the way in which you keep us posted as to the workings of rival companies. I think that the wave you speak of will soon commence rolling through Ohio, and it is already assuming very fair dimensions in the East, and we anticipate to do good work through Ohio in the Spring. It is rather late to commence work there now, as in a few weeks frost will set in.

Very truly yours,



1883-10-02

October 2nd. 3

P. B. Shaw, Esq.

Williamport, Maine,

Dear Sir:-

I am in receipt of your favors of the 28th, ulto., one addressed to Mr. Wilson and the other to myself.

In reference to the former I would say that we had no such arrangements with Mr. Hutton as you mention. We were to run the station for thirty days after it was ready to supply light; we made no agreement to run it for thirty days after a new wick was supplied. I will, however, attend to this matter when I meet you on the 8th, inst. I can forsooth nothing now to prevent me from keeping this engagement.

Very truly yours,

*S. J.*  
7

1883-10-02.

October 2nd.

A. Stedert, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

I am in receipt of your favor of the 30th ult., and have to-day sent you under separate cover the chart of Highlandtown showing the total number of lights in the district marked off, the average burning of which amounts to 173 lights for four hours and fifty nine minutes.

I also sent you a form of agreement between ourselves and the local company. In each case the payments are as follows:-  
25<sup>0</sup> of the total amount of the contract upon the signing of the agreement; 30<sup>0</sup> of same when the installation is ready to supply light, and the remaining 45<sup>0</sup> after the installation has been in condition to supply light for thirty days.

Trusting that this will meet with your requirements, I

am,

Very truly yours,



Enclosure.



1883-10-02

October 2nd.

3

John R. Campbell, Esq.

care P. B. Shaw,

Williamsport, Penna.

Dear Sir:-

I am in receipt of your several favors in reference to permits and concessions for running our lines in Williamsport.

I consider that you made a mistake when you first went to Williamsport in not finding out definitely what the idea of the Williamsport Company was in reference to your obtaining these permits. As it is they first decided to obtain them themselves, and after delaying you in Williamsport reconsidered the matter and allowed you to go ahead with the work which you were sent there to do. This matter will prove very expensive to us in comparison with what it should have cost had you gotten through with it in a reasonable length of time.

In future it would be well for you to sound local authorities to better advantage than you have done in this case and try to obtain their ultimate ideas from the start, as we cannot afford to allow you to wait in each place an excessive length of time, in order to allow the companies there to change their minds a half a dozen times.

I will send you some money either to-morrow or the next

1883-10-02.

2

day, with instructions as to where you are to go next.

Very truly yours,

Yale

1883 To 562

October 2nd.

C. H. Campbell, Esq.

White Plains, N. Y.

*My Dear Campbell!*

I got your telegram this morning telling us to make allowance for piles in the construction of the Fall River building. Inasmuch as the ground is of rock, we have made allowance for the necessary excavations, and it will hardly be possible to drive piles through such a substance.

Hughes is still awaiting additional estimates for Newburgh. These I am unable to send him as I have not got a map which is properly marked. You will remember that one of the fenders was cut <sup>off</sup> a certain street and run around towards the top of the map.

Harris & Robinson continue to "kick" about Southington. I hope to send them Hartford to-morrow.

Mr. Edison and Mr. Insull are both away and will not be back until the end of the week, and I have no time to prepare estimates.

I have got all the plans of the West Shore & Buffalo buildings which we are requested to bid for. The Ohio business still remains in abeyance.

1883-10-02

2

I merely send you this to let you know how we are getting along without you and to illustrate that your very valuable services are missed. I hope you are much better and that nothing serious has developed in your case, and would impress upon you the advisability of not coming out of the house too soon, as this is sometimes a fatal mistake made by your fellow invalids.

Drop me a line and let me know how you are getting along.

Sincerely yours,

Alfred

1883-10-03

October 3rd.

3

W. E. Andrews, Esq.

National Hotel,

Shenandoah, Penna.

Dear Sir:-

Referring to your favor of September 24th. in reference to pressure indicators, I beg to say that I have ordered forward six of the new style pressure indicators to your address at Shenandoah.

Regarding 60 candle power lamps ~~the~~ the local company want any of these they can obtain them by ordering through the Light Company, as you understand all orders for lamps must be submitted through that source.

Very truly yours,



1883-10-03

October 3rd.

3.

C. C. Sims, Esq. Supt.

Care Arrington & Sims Co.

Providence, R. I.

Dear Sir:-

Our office has sent you to-day a check for \$1,875., which you will receive by the express mail as this letter. I have also sent to Edison to-day a note for \$1,375., dated September 22nd. and running three months, bringing it due on the 25th. December. I have requested Mr Edison to sign it and send it to you immediately he gets it, and would suggest that you telephone him about eleven o'clock to-morrow at the Brockton central station, and ask him whether he has sent it to you, and if not, request him to do so immediately. This will insure your getting it.

If you will send me a memorandum of the cost of the discounting, I will send you a check for same.

Very truly yours,



1883-10-03

October 3rd, 1883.

Gustav Solder, Esq. Supt.

104 Goreck Street, City.

Dear Sir:-

The Electric Tube Company will ship you in a day or two  
a U tube junction box to be finished. Please push this through  
with the utmost speed, as the box is for Lawrence and a delay  
would be very serious.

Yours truly,

A handwritten signature, likely of the sender, is written in dark ink. It appears to be a stylized name, possibly 'S. S.' or similar, with a flourish at the end.

1883-10-03

October 3rd.

3

W. T. Andrews, Esq.

Shorelin, Penna.

Dear Sir:-

Your letter of the 1st. inst. to Mr Insull, enclosing statement of account, has been received. I will have the latter checked and advise you as to the result.

I received a telegram to-day from Mr Insull, who is at Brooklyn, stating that he had authorized you to draw on us at one day's sight for \$100. This I presume will straighten out your finances.

The Brooklyn station was started with great success, and Mr Insull advises me that everything is perfect in connection with the building.

Very truly yours,





1883-10-03

October 3rd. 3

W. H. Dwyer, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I beg to hand you herewith an estimate for the erection of a central station plant at Fall River, amounting to \$41,000.00.

You will notice in the estimate that I have covered the point requested by you, namely, that the stack should be put in large enough for the boiler capacity required for 4000 lights.

I have also embodied in the estimate that the water connection is to be taken from the river, in addition to the connection of the station with the street mains.

I further enclose you two copies of an agreement, duly executed by me as Mr. Edison's Power of Attorney, and should be glad if you will return one executed by Mr. Dow, as President, and yourself, as Treasurer, together with a check for \$4,100.00, being ten per cent of the amount of the estimate payable on the contract being signed.

A blue print of Fall River sent you herewith forms Exhibit A to the contract and the estimate Exhibit B. Those two should be attached to the copy of the contract which you retain.

1883-0-03

2

With reference to the details of the work, the roof timbers shall be two inches deeper than those at Brockton, and planned in compliance with the suggestion of Mr. Jerome Gordon. The plant will of the same character as that at Brockton and the work finished off in the same style.

In the blue print of the central station, which I send you herewith, you will notice that the boilers and engines ~~were~~ have been turned around as suggested by you. The space in the boiler room is amply sufficient to enable us to add two more boilers of 140 horse power each. The boilers we now propose to put in are two 73 horse power boilers set in one battery, or, in other words, a double 140 horse power boiler. This is done in order to get a subdivision of the boiler power. Any future extension we would propose installing a single 140 horse power boiler, that is a boiler with one furnace. The total boiler power would then enable you to take care of 3200 lights, then when you require to make a further extension we would take in another 140 horse power single furnace boiler, which would bring your boiler capacity up to 4800 lights. There is plenty of room to do this in the building as at present designed, and the subdivision of boiler power, which you will then have, will be quite sufficient, as with a total plant of 4800 lights you would have what is practically four

1883-10-03

3

distinct boilers to take care of same.

I have given the orders to-day for our material, and the work will be pushed on as vigorously as possible in order to get the installation completed within the shortest possible period.

I will advise you from time to time as to our progress, and will doubtless be able to tell you within a week or ten days the date that we shall commence laying our tubes, which is, as you understand, the most troublesome part of the work.

Very truly yours,

~~W. A. C.~~  
W. A. C.  
by J. D. Atty

Enclosure.

1883-10-03

October 3rd.

3

W. H. Dwyer, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Wall River, Mass.

Dear Sir:-

I enclose you herewith a certified copy of my Power of Attorney from Mr. Edison, which it would be as well for you to file in your office, inasmuch as the agreement with him is signed by me.

Very truly yours,



1883-10-03

October 3rd. 3

Thomas A. Edison, Esq.

care W. J. Jenks, Manager,

Brockton, Mass.

Mr. Edison:-

I enclose you herewith a note for \$1,375, due the 25th, December and in favor of the Armington & Sims Company.

Please sign this and send it to Sims in the enclosed envelope

IMMEDIATELY you get this. Do not fail to do this, as I promised Sims yesterday that he should have it in order to enable him to meet his payroll, which is due to-morrow or the next day.

I have sent him a check to-day for the same amount as the note, and the two together will settle up our Construction Department account with Armington & Sims for last month, in fact will clear up everything with the exception of the large engine shipped to Lawrence Monday morning. I have arranged the date of the note at such a time that I shall easily be able to take care of the payment of same.

Very truly yours,



Enclosure.

1883-10-04

October 4th. 3

Frank H. McComick, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to apologise for not having answered your favor of the 19th. September before this.

Mr Edison and myself have found it necessary to be away from New York so much of late that this, together with some other matters, has entirely occupied attention. I have been endeavoring to go to Sunbury and Williamsport for some time past, but up to the present have found it impracticable. I have, however, made an engagement with Mr Shaw to meet him in Williamsport on Monday next, the 11th. inst., and I will at the same time no doubt have the pleasure of meeting you and arranging with you as to the transfer of the stock.

Very truly yours,

D. J.

1883-10-04

October 4th.

3

Hon. Jacob Hess,

city.

Sir:-

I have the pleasure to enclose you herewith a letter from the Hon. Roscoe Conkling to your good self introducing Mr. Edison to you.

Mr. Edison is absent from the city at the present time, and will not be back until Monday next, I therefore deemed it advisable to forward this letter to you by the hand of Mr. Russell.

On Mr. Edison's return, he will doubtless do himself the pleasure of renewing his acquaintance with you.

Very respectfully yours,

Private Secretary.

Enclosure.

1883-10-04

October 4th. 3

Henry A. Clark, Esq.

Eric, Penna.

Dear Sir:-

I have the pleasure to acknowledge the receipt of your favor of the 1st. inst., and in reply beg to say that we can complete the work at Eric within sixty days after the signing of the contract. You will no doubt appreciate the necessity of closing this matter quickly, if it is the intention of the Eric Company to do anything this year, as very soon the frost will set in and it will be impossible for us to set poles and make other necessary excavations.

Very truly yours,

J. A. C  
9



18831883-10

October 4th.

3

G. H. Campbell, Esq.

White Plains, N. Y.

My Dear Campbell:-

*Not*  
I have ~~received~~ <sup>not</sup> received any answer yet to the letter I wrote you the other day, and I presume you have either been too ill or not had time to write me.

I got the Newburgh-Business fixed up with Hughes this morning without sending any other estimator. *Other than Camp Sum. Bldg. by letter* Other matters in relation to estimates are still "hanging on", and there is one point which Hughes wants very badly that I am unable to give him, and I wired you about it yesterday, namely, the details of the building. The Newburgh Company desire to have a specification of the building you propose to erect for the central station, in order that they may obtain a bid on same from some local builder, who it appears will take the amount of his contract in stock. We should like very much to give this information at the earliest possible moment. The amount you allowed for this structure was \$3,100., the building to be of brick. There are no accessible details in the office, and I presume that you carry this information in your head, just where we cannot get at it. Can you assist us any from where you sit (I hope by this time you are able to sit up)?

1883-10-04

October 4th.

2

I made up the Fall River estimate myself. It is for 3000 lights, with street installation calculated to cover 3000 lights, and the total amount is \$11,100.00. I allowed for freight and cartage \$241., for clerical work about \$400. and about \$973. for the expenses of the electrical, motor and engineering experts, while starting the station. All the other items were made up in the usual manner. This estimate was accepted and the contract closed on Monday, and we are going right ahead with the work. Do you think we will clear expenses on it?

I hope you will be able to come out soon, as things are commencing to "boom", and there are two or three more contracts which it seems to me we are likely to get before cold weather sets in.

Before we "tackle" any new work there are a lot of old matters in the office which I should like to get cleaned up and I cannot do it without your assistance. When do you think you will be able to come back again?

Trusting that you are rapidly progressing towards convalescence, I am,

Sincerely yours,

A. J.

1883-10-04

October 4th. 3

A. A. Cowles, Esq. Secty.

Ansonia Brass & Copper Co.,

10 Cliff Street, City.

Dear Sir:-

I enclose you herewith an order for copper rods to be sent to the Electric Tube Company. These rods are to go in tubes, which will be laid in Fall River, under a contract we have with the Edison Electric Illuminating Company of Fall River.

It is very important that this order should be pushed forward as quickly as possible, as we have but a comparatively short time to make up the tubes and get them laid before frost comes on. We shall therefore be glad if you will make an extra effort to get them out quickly for us.

I will call down to-morrow and show you Mr. Edison's contract with the Fall River Company and give you full explanation as to the matter, which I feel sure will be entirely to your satisfaction, as the parties in interest with us in this matter are of the very best.

Very truly yours,



1883-10-04

October 4th.

3

J. R. Campbell, Esq.

City Hotel,

Williamsport, Penna.

Dear Sir:-

I am in receipt of your letter of yesterday's date, and in reply beg to state that I did not intend my letter of the 3rd inst. to be interpreted as a censure, I endeavored simply to point out the mistake which any one else, placed in the same position, would be liable to commit. I will see that there are no more delays as regards maps, and will also have them properly marked before sending them to you.

I send you by this mail, under separate cover, a map of Lock Haven with the red lines properly shown thereon.

I have your telegram of to-day's date stating that you were compelled to draw at sight to prevent delay, which in this instance is quite satisfactory.

Very truly yours,

J. A. E.

g

1883-10-04

October 4th.

3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I have your letter of the 28th. ulto., and in reply  
beg to state that I will be in Williamsport on Monday next, the  
5th. inst., where I shall have much pleasure in meeting you.

Very truly yours,

S. J.

1883-10-04

October 4th, 1883

J.B.A. Edison, Esq.

Care of W. J. Jones, Esq.

Washington, D.C.

My Dear Edison:-

Gouraud has just been in here and is very anxious that the telephone matter should be settled right away. He says that he spoke to you about the <sup>division</sup> of the lower-half stock, and I understand his proposition to be that the telephone company of Europe should take half the stock and he take the other half, on account of the countries he put in under the agreement between you and himself. Will you please wire me instructions in this matter the first thing to-morrow morning, so that I can have the necessary papers prepared. If you will authorize me to negotiate with Gouraud, I will endeavor to bring him down, as considering the dual capacity you hold as President of the European Telephone Company, and a party interested with Gouraud in any shares that he may obtain, I think that you should do your utmost to get as good terms for the European Company as possible, as otherwise the matter might look bad if brought up afterwards.

I got an order this morning for 35,000 lamps for Berlin and 2,000 lamps for London. The first order is in consequence of our reduction in terms, showing the good policy of making the

1883-10-04

3

reduction.

I am very sorry that you did not receive that matter from the printers, but you must blame the express company and not our office, as it was all sent off from here on Tuesday.

Please wire me stating absolutely when you will be back.

I went around to see Mrs. Edison this morning and she seems considerably better. She is going to move this afternoon, and the doctor has undertaken to accompany her, in case of any mishap. I shall wire you to-night stating whether the moving proved disadvantageous to her or not.

I have the honor to be (à la Française), Sir,

Your most obedient and Faithful Servant

A handwritten signature, possibly 'S. J.', in dark ink, located below the typed signature line.

1883-10-05

October 5th.

3

John P. Smith, Esq.

143 East 33rd, Street, City.

Dear Sir:-

My house, 25 Gramercy Park, is now empty, and I shall be glad if you will see to the watching of same, and prevent your bill at the above address each month.

Yours truly,

T. A. G.

1883-10-05

October 5th.

3

Friend Beach:-

I send you herewith an interesting article suitable for your columns on "Storage Batteries" written by Mr. Spencer Borden of Fall River, who sent it to me and asked my opinion.

I think it a very correct article and thought possibly that you might like to publish it.

Very truly yours,

T. A. G.  
J.



1883-10-05

October 5th.

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

Referring to a cable confirmed elsewhere, I beg to inform you that I wired you with relation to the Arrington & Sims engine at the request of Gov. Howard and Mr. Sims.

They do not understand why you are unable to deal with Arrington, and if your people are really anxious to get the engine, I can make favorable terms here.

Very truly yours,

*Lab*

1883-10-05

October 5th.

3

J. U. Mackenzie, Esq.

400 Vanderbilt Avenue,

Brooklyn, N.Y.

Dear Sir:-

I wrote you sometime ago asking for the recipe for the duplicating ink which we used to make up at Menlo. I have not at this writing received the same, and if you will again so far oblige me I shall be glad if you will let me have the recipe.

Very truly yours,

*Lab*

1883-10-05

October 5th.

3

Mademoiselle,

222 Madison Avenue, City.

Madam:-

If you have a vacancy in your school for a little girl ten years old, Mr. Edison would like to send his daughter as a day scholar.

He desires that she should take lunch with the family.

If you have a vacancy, will you please let me know at your early convenience what your terms would be and how soon you would desire Miss Edison to commence her studies?

Yours very truly,

Ed.  
P.S.

1883-10-05

October 5th, 1883.

Joseph S. Ferroll, Esq.

Southwark Foundry & Machine Co.

430 Washington Avenue,

Philadelphia, Penna.

Dear Sir:-

Your favor of the 3rd. inst. came to hand during the absence of Mr Edison and myself from town. I returned this morning but Mr Edison will not be back until next week.

I regret very much that you should feel compelled to write a letter in the spirit in which you have, and can assure you that the settlement of the matter would have been made ere this had not circumstances absolutely prevented Mr Edison from doing so.

Mr Edison has been away a very great deal lately and so have I, and it <sup>has</sup> so happened that we have seldom been here at the same time and have therefore been unable to discuss the matter of your outstanding claim and arrange ~~for~~ settlement.

At this writing it is impossible for us to <sup>Final</sup> make a settlement, but I can promise to send you to-morrow a note for \$2,000, and possibly \$300. more. The note will be that of the Edison Company for Isolated Lighting, with Mr Edison's endorsement, and I trust that you will take this as an earnest of our desire to make a settlement with you as early as possible.

I shall be glad if you will wire me in the morning sta-

1883-10-05

2.

Whether this will be satisfactory to you.

We have had the engine at Gresham Street ready for you to use for some time past, but so far nothing has been done there with relation to the experiment which you promised to make.

Will you please advise us with relation to this matter, and greatly oblige,

Very truly yours,

S. J.  
P. L.

1883-10-06

October 6th. 3

J. H. Welloy, Jr., Esq., Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I beg to acknowledge with thanks your favor of the 5th. inst. enclosing copy of the agreement between us duly executed, also your check for \$4,100.00, the same being ten per cent of the amount of our estimate.

Very truly yours,

1883-10-06

October 9th.

3

C. W. Rogers, Esq. Vice Pres.

Electric Railway Co. of The U.S.

211 1/2 Building, City.

Dear Sir:-

This will introduce to you Mr. E. A. Pratt of London,  
who is desirous of looking into the matter of electric railroads.

If you have the railway at Henle Park in operation and  
can arrange with him to see it, I shall esteem it a favor.

Very truly yours,

*J. A. L.*

1883-10-06

Middletown  
+ Mr. Schumaker

October 6th.

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

My canvasser, Mr. Dyer, writes me from Akron, Ohio, and says, Mr. Schumaker, the Prohibition Candidate for Governor of Ohio and the largest property owner in the City of Akron, was, when Mr. Dyer first met him, on the point of purchasing a 110 light Brush-Swan plant for his mill and office and intended to use a storage battery in connection with same. Mr. Dyer says that he has demonstrated to Mr. Schumaker the inefficiency of these batteries, and, furthermore, stated that you will find it advantageous to open communication with him (Schumaker) as early as possible.

Regarding the 300 light plant for Middletown for which I was to send you an estimate this week, my own engineer, Mr. Campbell is still confined to the house through illness. I have, however, had the estimate prepared and it is nearly completed and will be forwarded to you on Monday. You will no doubt understand from this that the delay was unavoidable.

Very truly yours,

1883-10-07

October 7th. 1883.

Southwark Foundry & Machine Co.,

430 Washington Avenue,

Phila. Penna.

Dear Sirs:-

I received your telegram yesterday, and have the pleasure to enclose you herewith note for \$2,000. of the Edison Company for isolated lighting endorsed by Mr. Edison, who has returned to the City this morning.

Please credit this to the account of the Edison Machine Works.

Very truly yours,

A handwritten signature, possibly "J. S.", in dark ink, located below the closing of the letter.



1883-10-07

October 7th. 3

W. F. Brewster, Esq.

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

In reference to a canvass of New Orleans, we beg to say that we would advise not making this at present. We think it would be desirable to wait until the St. Louis business is settled before going to the expense of making other canvasses in the South, as it is our desire to keep the expense down to the lowest possible figure and not make canvasses except when we are quite sure that money will come from them. If, however, Captain Hoffinger is willing to pay for this canvass of New Orleans, we will of course make it under his instructions, but otherwise we would prefer not making it for the present.

Very truly yours,

J. A. G.

1883-10-08

October 24th. 3

Western Electric Co.

62-64 New Church Street, City.

Dear Sir:-

Referring to your Order No. 087, under date of October 4th. and which we return herewith, we very much regret to state that we have not got on hand the carbons which you desire, and as we have broken up our laboratory we have discontinued making them.

Would it not be possible for you to make these yours? If we should much prefer you to deal with the matter in this manner.

Very truly yours,

*G. A. L.*

Enclosure.

1883-10-08

October 11th, 1883

John Kruesi, Esq.

48 Washington Street, N.Y.

Dear Sir:-

Referring to the attached telegram from the Treasurer  
of the Lawrence Company, does your bid for the additional under-  
ground conductors take in the extension Mr. Lord refers to?

Please let me have a reply by return.

Very truly yours,

SL

1883-10-08

October 8th.

3

"Secretary,"

Edison Electric Light Co., Limited,  
74 Coleman Street,  
London, E. C. England.

Dear Sir:-

We beg to acknowledge receipt of your letter of the  
25th. ult., signed by Mr. Claude Beckett covering orders Nos. 511 and  
512.

The reduction in prices for lamps was made subject to  
orders being given us for 10,000 lamps. The prices quoted to you  
were figured down as low as possible, provided lamps were ordered  
in the quantity named. It is quite impossible for us to vary  
the offer made to you in our favor of the 15th. ult., and unless  
you are prepared to order in accordance with that letter, the prices  
must stand the same as those given to you. There is not sufficient  
margin in the manufacture of lamps to allow of any modification,  
unless upon the quantities stated to you in ours of the  
15th.

We accordingly cabled you to-day that we could only fill  
the orders at the old prices, unless you were prepared to give us

1883-10-08

2

an order for 10,000.

Very truly yours,

*Tahf*

1883-10-08

October 14th.

Charles T. Hughes, Esq.

U. S. Hotel,

Newburgh, N.Y.

Dear Sir:-

Referring to your favor of the 14th. inst., we beg to say that it is not our intention to make any more detailed estimate for Newburgh, as we consider that the information given in our letter under date of October 4th. is all that you can possibly want in submitting the matter to the Newburgh Company.

In that letter we show the reductions which we will make in the street installation and electrical part of the estimate, providing you decide to cut off the mains and feeder as described therein, and a further estimate would simply be a duplicate of the one you have embodying the alterations mentioned in our letter of the 4th. inst..

We will send you by to-morrow's mail blue print and specification of the building which we propose to erect at Newburgh, and you will find the information which we give you on that is necessary for an outsider to have in order to bid for the erection of same.

The statement of profits will accompany them.

Very truly yours,



1883-10-08

October 8th.

Mrs. T. A. Edison,

City.

My Dear Mrs. Edison:-

Can I sell the gray pony and the children's wagon and brown harness for \$100.? This is the best offer that I can get for it. Johnny tells me that the wagon is very much dilapidated and the pony is worth comparatively little.

Please give me an answer by bearer, as I want to reply to the offer to-day.

I will try to get around to see you this evening.

Very truly yours,

81

1883-10-08

October 8th.

3

W. B. Rich, Esq.

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I enclose you herewith two blue prints, one showing the foundations of the Fall River building and the other the general internal arrangement of the station. I also attach an office copy of our estimate, and would call your attention to the fact that the prices quoted are our selling prices.

We have placed our orders for the boilers, engines, dynamos and steam and exhaust piping, so that there will be no delay when you are ready to have us ship this material. We have also ordered foundation caps, bolts and washers.

Referring to the column for net cost, do you not think it would be a good idea for you to fill in opposite each item (the exact cost of which is only accessible to you) the actual amount expended in connection with same. I refer to foundations, boiler hearth, cost of hoisting & guying, stack, and you might also give the cost of the labor in connection with the hanging and direct of steam and exhaust piping etc. This would prove to be very valuable information to us and we shall be glad if you will fill these costs as accurately as possible.

Very truly yours,

ES



1883-10-08

October 8th. 3

C. E. Spiers, Esq.

232 Murray Street, City.

Dear Sir:-

Mr Edison wants to see you to-morrow (Tuesday) at  
twelve o'clock sharp.

Very truly yours,

A handwritten signature, likely of Thomas Edison, consisting of a stylized 'T' followed by a cursive 'E'.

1883-10-09

October 9th.

3

O. A. Moorand, Esq.

Kristiansund, Norway.

Dear Sir:-

Referring to your favor of October 8th., I beg to inform you that the instrument you refer to for the assistance of deaf people was never perfected, owing to my having to give my attention to other matters. I hope, however, at some future day to take it up and deal with it again, but at this writing cannot say when it will be.

With relation to electric lighting, I think the best thing you can do is to write to Mr. Bailoy, who will doubtless communicate with you and give you the information.

Very truly yours,



1883-10-09

October 9th.

3

A. E. Kissell, Esq.

Knoxville, Tenn.

Dear Sir:-

Your favor of the 3rd. inst. came to hand during my absence from town.

In reply, I beg to state that the only way that we would make an estimate is to have a regular canvass of the town made, and on the data thus obtained make our tender in the regular manner.

There would be no necessity to have an electrician to run the station. One engineer and one motorman is quite sufficient. Sanbury with 500 lights, Shamokin with 1000 and Brockton with 1000 are run by two men, the motorman helping the engineer from 5 P.M. until 10 P.M., after which hour the main load is nearly off, the engineer runs the balance of the night and the motorman comes on at 10 in the morning, attends to the motorwork, bookkeeping, collects bills and turns the money over to the Treasurer of the Company. The inside wiring is done by a local plumber, who is taught the work by our experts when we send on. It is a very bad policy to have the local company do any of the inside wirework, as if they do the consumers will pay off the light against their wire bill.

1883-10-09

2

If you will write Major Eaton that the prospects are good for organizing a company he will order us to make a canvass, and we will push through the work as quickly as possible.

If they require us to do the work, we are willing to take a contract, providing they leave the whole of it to us. We are not, however, prepared to let them do part of it and take a contract for the remainder. Our experience with this method of procedure at Shumokin compels us to take this course, as it ends in increasing the expense and causes great delay, and gives neither satisfaction to the local company nor to ourselves.

Very truly yours,

*W. A. G.*

1883-10-09

October 9th. 1883.

Guatav Soldan, Esq. Supt.

104 George Street, City.

Dear Sir:-

I beg to give you below an extract from a letter which  
Mr. Edison has received from Mr. Ketchum:-

" 140 light machine. I have just altered an I to give  
140 jumps quite easy and it works very well indeed.

Armature:- wound like a B

18 wires No. 18 each coil.

resistance 0.030 ohms.

Each core wound with 103 lbs. No. 18 wire, paper  
on core but after the bottom layer no paper.

The wire passes through a hot solution of para-  
fin and resin on the lathe during winding.

Test, 1,200 turns

140 Amperes.

110 Volts.

F Dynamo. I have altered all the F dynamos, we had  
commenced to give 1000 turns instead of 2400 which is a speed  
which gives no satisfaction in the hands of the public.

Armature:- Instead of 2 wires 11 turns around I make 2  
wires 12 turns around, this makes the armature more resistance but  
then we can easily sell them at that."

Yours truly,



1883-10-09

October 9th.

3

J. W. Sorrell, Esq.

140 Nassau Street, City.

Dear Sir:-

I do not think there is any necessity to take an appeal  
in the first count of the Nicholson case.

Very truly yours,

*W. A. G.*

1883-10-09

October 9th.

George W. Wilbur, Esq.

care W. J. Jenks,

Brockton, Mass.

Dear Sir:-

Please advise me as early as possible how soon you will be through canvassing Brockton. I would very much like to start canvassing Auburn, N.Y. early next week. If you can go there earlier, so much the better.

Yours truly,

1883-10-09

October 9th.

3

J. H. Denty, Esq.

Shreekin, Penna.

Dear Sir:-

My private secretary, Mr Insull, will be in Shreekin either Wednesday or Thursday, in order to arrange with you for the settlement of my account for the installation of the central station at Shreekin.

Very truly yours,

*G. A. G.*



(883-10-09-)

October 9th. 8-

Frank S. Marr, Esq. Treas.

Edison Electric Illuminating Co.

Sanbury, Penna.

Dear Sir:-

Referring to your favor of the 3rd, October enclosing paragraph from the "Public Ledger", I beg to inform you that there was no fire, except in a service pipe four feet underground and where there was no safety catch. No fire can or has ever happened in our district, and we have reduced the average fires thirty five per cent. within the area we are now lighting.

Very truly yours,

*J. L. G.*

1883-10-09

October 9th.

3

Monro, Harrison & Co.

303 Avenue, N, City.

Dear Sir:-

I enclose you herewith a two months note for \$2,34.03 in settlement of our laboratory account. My books agree exactly with yours on this account, so this clears us off until October 1st

I also enclose you a three months note for \$2,390.03.

I make this amount up as follows:-

\$1,410.43 amount due your Wiring Department by our Construction Department, according to our books and \$730.50 amount due your firm by our Construction Department, also according to our books. This leaves a difference of \$316.01 due to you according to your books, and which we do not appear at this writing to have on our books. Mr Tate will communicate with you during the week with a view to straightening the matter out, when we will endeavor to hand you a check for the balance.

I also enclose you a check for \$3,035.00, on account of your account against the Edison Electric Light Company. You should send some one up to sign a voucher for this.

Will you please send me a check for \$1,400., in return for the check which I gave you on Saturday. I will deposit that check to-day, with the one I now have here for \$600., into this

1883-10-09

2

afternoon, so they will not get into your bank until to-morrow.

Very truly yours,

A handwritten signature, possibly reading 'S. J.', is written in dark ink.

Enclosure.

1883-10-69

October 9th.

3

A. M. Beach, Esq.

211 Broadway, City.

Dear Sir:-

Referring to yours of the 11th. inst., I will find out from the writer of the article whether he would like his name published. My impression is that he would prefer to assume a nom de plume.

Very truly yours,

*Gale*

*Gale*

1883-10-09

New York, October 9th. 1883.

Messrs. G. E. Gouraud, Joshua Franklin Bailey & Theodore Puskas,

Dear Sirs:-

The undersigned acting for and by authority of the Edison Telephone Company of Europe, Limited, and also for himself individually as co-vendor under the agreement dated 10th. November, 1881, between T. A. Edison, The Edison Telephone Company of Europe, Limited and others, and the Edison-Gower-Hall Telephone Company of Europe, Limited, you are hereby authorized and directed to transfer the 175,000 shares of the Edison-Gower-Hall Telephone Company of Europe, Limited, notwithstanding in your name, into the names and to the amounts as follows, viz:-

- |   |               |
|---|---------------|
| 1. The Edison Telephone Co. of Europe, Limited..... | 125,000       |
| 2. Thomas Alva Edison.....                          | 44,750        |
| 3. George Edward Gouraud.....                       | 61,250        |
| 4. Theodore Puskas.....                             | 4,500         |
| 5. Joshua Franklin Bailey.....                      | 18,300        |
|   | <hr/> 175,000 |

Witness.

The Edison Telephone Company of Europe, Ltd.

President.

Witness.

1883-10-10

October 10th.

Gustav Saldan, Esq. Capt.

104 Gorek Street, City.

Dear Sir:-

Here is an extract from our masterman at Shamokin,

Mr. Conant:-

"I have fitted to one of the dynamos a couple of straps by which the brushes may be raised from the commutator when shutting down. The arrangement is as in the following sketch.

All that is necessary is to pull the strap and catch the ring over the hook. Above the ring is placed a buckle to allow of adjusting the lift. At the end of each strap is a small stick which is caught under the brushes (as shown at W. 1.)

The rollers are screwed to the wooden base of the dynamo. There is enough slack to allow of shifting the brushes when necessary during a run. The arrangement works easily and the entire cost is about \$1.00. What do you think of the idea?"

Yours &c  
T. A. L.

1883-10-10

October 10th. 3

Messrs. Bergmann & Co.

202 Avenue U, City.

Dear Sirs:-

I beg to give you below extract from a letter received by Mr. Edison from our meterman, Mr. Copant, who is now at Shamokin:-

"The copper wires on the 3 light plates, as you know, are extra long to allow for the small plate. This is all right, but Bergmann has sent me a lot of 13 light maxxx plates which for some reason are fitted with 3 light copper wires, so that to get them into the meter they must be cut down, and we cannot waste time in sending these back but this should not happen again. The 33 light coppers also you remember are too short."

Very truly yours,



4

1883-10-10

October 10th.

3

Messrs. Stigman & Mc.arty,

Brownsville, Texas.

Dear Sirs:-

Replying to your favor of the 27th. September, we beg to say that at Sunbury, Penna. we have installed a 500 Edison Electric Light Plant, the cost of which, with building and everything put up complete, was \$14,500.; at Shamokin, Penna. we have a 1000 light plant, the cost of same complete being \$30,000; and we have also a 1000 light plant at Brockton, which was installed at a cost of \$31,000. All these plants are working perfectly, and consumers of the light say that they are thoroughly satisfied with it and would not on any account use gas when they can obtain our light.

We would suggest your sending maps of both the towns mentioned in your letter, and if possible stop the operations of the arc light people.

Very truly yours,

L. A. G.



1883-10-10

October 10th, 1883

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

I am in receipt of your telegram of last night stating that the refilling of the trenches is unsatisfactory. I also received another telegram and letter from you this morning in reference to the extension of your system on both sides of Essex Street.

I have referred this and the matter of the unsatisfactory refilling of the trenches to the Electric Tube Company, who will instruct their foreman at Lawrence to have this work properly done.

The three 100 light meters which you ask for will be sent at once.

Very truly yours,

*Tale*

1883-10-10

October 10th. 3

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I send you herewith Maps of Middletown, Ohio and

Norwich, Conn. for determination.

~~These are not, but, I think,~~

*Norwich is Underground - Middletown Hole Live.*

Kindly let me have these as soon as possible, and oblige,

Yours truly,

*Tak*

1883-10-19

October 10th. 3

Messrs. Herrmann & Co.

302 Avenue B, City.

Dear Sirs:-

Referring to your invoice of October 5th. for one main  
ampere indicator for Shenokin, which appears to have been ordered  
by Mr. Andrews, we wish in future that you would not accept orders  
for material on account of the Construction Department unless they  
are issued from this office, as it causes great confusion and we  
never know what material is being supplied for our stations.

Very truly yours,

Toby

1883-10-10

October 10th. 8

W. S. Andrews, Esq.

care W. J. Jenks, Manager,

Brockton, Mass.

Dear Sir:-

I am in receipt this morning of two invoices from Messrs. Hermann & Co., each for an ampero indicator forwarded to Shamokin, one of which has been supplied by an order from this office and the other by verbal order from yourself.

We do not understand what use you can have at Shamokin for two ampero indicators.

In future when you require material *we would much* prefer you to place your orders through the medium of this office, as it is impossible for us to keep track of our business unless we know exactly what is going on.

Very truly yours,

*L. A. G.*

1883-10-10

*Electric Tube*

October 10th. 3

Electric Tube Co.

44 Washington Street, City.

Dear Sirs:-

I am this morning in receipt of a letter from the Treasurer of the Lawrence Company stating that their system must be extended on both sides of Essex Street.

A few days ago I referred a telegram in reference to this extension, in reply to which you stated that your bid for additional underground conductors required at Lawrence covered this extension. I received another telegram last night from Mr. Lord stating that the refilling of the trenches was unsatisfactory, and that your foreman would not repair the damage. We shall be glad if you will give both these matters your immediate attention, and ascertain what has given rise to the complaint which Mr. Lord makes, and have the matter adjusted as quickly as possible.

Very truly yours,

*S. A. J.*

1883-10-10

October 10th, 1883

W. M. Dwyer, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

In reply to your favor of the 4th. inst., we beg to say that everything at Fall River will go ahead with all possible despatch, and Mr. Rich will be there in good time.

Mr. Edison is at the moment working out his scheme for wiring, and we would suggest strongly the advisability of your not making any promises to the public about wiring or prices of the light, otherwise it will severely interfere with Mr. Edison's arrangements, as it did at Dedden, where all the wiring must be done over and where they started too low on the price of the light, and installed far more light than parties required, thus running up their bills unnecessarily. You can rest assured that work will be proceeded with to your entire satisfaction, and that no time will be lost by us.

Very truly yours,



1883-10-11

October 11th, 1883

A. A. Cowles, Esq. Supt.

Ansonia Brass & Copper Co.

19 Cliff Street, City.

Dear Sir:-

I beg to enclose you herewith copy of my Power of Attorney from Mr Edison, as promised.

Very truly yours,

1883-10-12

October 13th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

At Lawrence it is proposed to put ~~two~~ light machines to take the place of the one 600 light spare machine, and this will require a different regulator to what we have been putting in in stations already started.

We have got to provide for running, first, the two regular machines, second, for one of the spare machines on either side, third, for one of the spare machines on each side, fourth, for both of the spare machines on one side or the other side, as the case may be. Now is your switch going to take care of this, and how are the regulators going to be arranged to take care of it?

Will you please study up this matter and let us have your ideas as early as possible, and in doing so please remember that an "H" regulator costs us \$30., and that we want to keep the expense of the regulation down as low as possible, compatible with its completeness. Of course you may think of some other points that we have to take care of besides the above enumerated, if so, allow for it.

Very truly yours,

S. J. A.



1883-10-12

October 13th,

3

George S. Ladd, Esq.

222 Sansome Street,

San Francisco, Cal.

~~Dear Sir:-~~

I am obliged to you for your favor of the 3rd. inst., and must thank you for the trouble you have taken with relation to our light for Mexico. It is, however, a matter with which I am personally unable to deal, as Mexico is controlled by the Edison Electric Light Company, who I think have a contract with some one in the city of Mexico.

I have referred your letter to Major Eaton, and he will doubtless communicate with you giving you detailed information on the subject.

With kind regards, I remain,

Very truly yours,

Jal  
\$7

1883-10-12

October 12th. 3

Paul W. Dyer, Esq.

Post Office,

Kansas City, Mo.

Dear Sir:-

I telegraphed you to Synthisia, Ky. requesting you to canvass Kansas City.

Mr. William F. Brewster, the special agent of the Edison Electric Light Co., desires you to see Mr. W. H. Winants, Cashier, Armour Brothers Banking Co.

It is proposed to put a plant in Kansas City of 4000 lights, so you will have to take in as large an area as possible.

I know it is quite unnecessary to urge you to hurry through the canvass, but I may as well state that we are waiting to get out the estimates and of course can do nothing until we get the canvass from you.

Very truly yours,



1883-10-12

October 13th, 1883

Messrs. Brower & Jensen,

33, Chancery Lane,

London, W. C. England.

Dear Sirs:-

Referring to your notice as to Patent 4,379 of 1880,

I beg to inform you that I do not propose paying the fee, and the  
Patent will therefore have to lapse.

Very truly, yours,

*John*

1883-10-12

October 12th.

3

William W. Brewster, Esq.

Southern Hotel,

St. Louis, Mo.

Dear Sir:-

I have your favor of the 6th. inst.

I have ordered Mr Paul O. Dyer to Kansas City to make a canvass of the town. He was in Wyndham, Ky. yesterday, and I presume will be in Kansas City in the course of a few days. I also wired you last night asking you to send him introductions to the right parties in Kansas City. I trust that you have done this.

We have instructions from Major Eaton with relation to the canvass of New Orleans. Immediately Mr Dyer is through at Kansas City, it would be well for him to go to New Orleans, but I would suggest that you write Major Eaton on the subject. I have myself sent a memorandum down to Major Eaton about this matter.

Very truly yours,

Gal  
7

1883-10-12

October 14th. 3

W. H. Cooke, Esq.

Osborne House,

Auburn, NY.

Dear Sir:-

I was away at the time you started for Auburn, and therefore had not an opportunity of speaking to you.

Mr Edison is very much dissatisfied indeed with several of your canvasses which show a great many mistakes. Appleton is a special case on which he has based his remarks. I have been over Mendota canvass with a gentleman from that place, and he also claims that it is very incorrect, and I notice in several places that you omit entirely the alleys and your ~~arrangement~~ of lights in many cases are very defective.

I write to warn you about this matter, and trust that the Auburn canvass will be a complete one.

Very truly yours,



1883-10-12

October 12th. 3

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,  
Boston, Mass.

Dear Sir:-

We wired you last night requesting you to communicate  
with Mr. C. H. Cooke, Osborne House, Auburn, whom we have sent there  
to canvass the town.

We are anxious that he should get from you the names of  
local parties for him to call on with relation to the canvass, and  
therefore trust that you have written to him on this subject.

Very truly yours,

*Tak*  
7

1883-10-12

October-12th. 3

O. J. Smith, Esq. Prost.

Americal Press Association,

39 & 41 Park Place, City.

Dear Sir:-

Referring to your letter of the 10th. inst., Mr Edison, who left town last night, requested me to inform you that he is so very busy that it is quite impossible for him to write the articles you refer to. He will be out of town the most of the time between now and November 1st., but after that date if you care to interview him, and so get at the data to write up articles on the subject you refer to, he will be very glad to give you the necessary time for the purpose, what I mean is for one of your representatives to get from Mr Edison exactly his views and then write them up himself.

Very truly yours,

Sdy  
O. S.

1883-10-12

October 12th. 3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I have your memorandum as to case No. 62.

I will look into the matter further and write you again in the course of a few days.

I hasten, however, to reply to your remarks on our meter.

We have been running since the 4th. July at Sanbury, at Shamokin for the last month and at Brockton for the last three weeks and down town since the early part of the year, and in all these places our meter has given very great satisfaction to the consumers. At Sanbury, where in all probability our customers have fewer lights in their houses than in any other place, the consumers in several instances have kept an exact record of the lamp hours, and the bill has tallied so closely with what they reckoned it ought to be from calculating by their lamp hours, that it has really surprised me, as the variation has not been more than two per cent in any case, and in a number of cases the meter and lamp hours have tallied within the smallest possible fraction. We dispense now with the quarterly bottle, and use one



1883-10-12

2

bottle as a check on the other, calculating the loss on the plate in each bottle and taking the mean.

I will get from Mr. Chinnoch some copies of his meter accounts and send them to you to substantiate what I say.

In fact I am so very much pleased with our meters that I would not for an instant think of using the recording meter, as the advantages of its being automatic would in no wise compensate for the difference in correctness as compared with our present form of meter.

Very truly yours,

*John*

*J*

1883-10-12

October 13th.

3

Messrs. Alden & Sterne,  
City.

Dear Sirs:-

I enclose you herewith letter from Homer Norman.

We are very anxious to let Bramorey Park indeed. Do  
not you think it would be a good idea to put up a notice that the  
house is to let?

Yours truly,

Gal  
7

1883-10-12

October 13th,

C. E. Chinnock, Esq.,

257 Pearl Street, City.

My Dear Chinnock:-

We have a letter from Europe "kicking" against the use of our meter, and we have written saying that if a check is kept on the meter by keeping an exact account of the lamp hours the correctness of our meter would be established.

Will you please write me a letter officially giving your experience with the meter and accompanying it with a few specimens of your meter records, which gives the name of the consumer, the loss on each plate and the amount of the account, also mentioning on what standing the calculations are made. What I want to do is to "lay out" these Europeans who "kick" against our meter, and want us to adopt a recording meter which would never be such a success as our present meter records.

Very truly yours,

A handwritten signature, possibly "S. J.", written in dark ink.

1883-10-12

October 13th,

3

Thomas P. Conant, Esq.

Weavers National Hotel;

Shamokin, Penna.

Dear Sir:-

Your letter asking for a check for salary came to hand while I was in Williamsport.

I have the pleasure to enclose you herewith check for \$ , being the amount of your <sup>pay</sup> ~~salary~~ for the months of August and September. (*This square your a/c up to Oct 1<sup>st</sup>*)

I shall leave New York for Shamokin Sunday night, and shall hope to have the pleasure of seeing you Monday morning.

If you should happen to find a piece of steak not more than ordinarily tough, you might save me half of it, as leather flavored with the essence of beefsteak is certainly indigestible, to say nothing about its being unpalatable.

Very truly yours,

*SS*  
*7*

1883-0-12

October 18th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I am in receipt of yours of the 11th, inst.

I cannot possibly order Conant from Shenackin at present.  
Cannot you borrow from Mr Rich some of his men to help you and so  
push your work through rapidly? I am anxious that Lawrence sta-  
tion should be started as early as possible, as we have quite a  
heavy payment dependent upon the current being put on the mains.

Very truly yours,

*AS*  
*7*

1883-10-12

October 12th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to remind you that up to this writing we have never received any detailed report as to the progress of the business in Brockton. We are frequently called upon by the Officers of the Electric Light Company for information, and we are absolutely unable to give it in consequence of our not hearing from you. Will you please, for the future, report at least twice a week to this office, irrespective of whether Mr. Edison or the writer should happen to be in any town where you may have charge of the electrical work. When we tell people that we are unable to give them information, they are inclined to think that we do not ~~want~~ <sup>mean</sup> to give them the information, and our position is therefore a very awkward one if you do not keep us posted.

Very truly yours,

S. J. Insull  
P. S. C.

1883-10-12

October 13th. 3

M. Ward Leonard, Esq.

care W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

I have your letter of the 11th. inst., and enclose  
you check for <sup>25</sup>~~22~~ as requested.

When you were here I asked you to report to this office  
exactly the course your business takes in Brockton. You should  
send us at least twice a week a statement showing the number of  
meters installed, in whose house they are installed, on which  
side the of the circuit the lights are and the number of lights  
each consumers is wired for, also any other information of interest  
in relation to the meter business. I trust that we shall not  
have to ask for this again, as I can assure you it is very annoying  
not to have the information here, as we are frequently called upon  
to give such information and it places us in a very awkward posi-  
tion in not being able to tell people, who have a right to know,  
how our business is running.

Very truly yours,

*S. J. Smith*  
*W. J. Jenks*

1883-10-12

October 12th. 3

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,  
Boston, Mass.

Dear Sir:-

I have your letter of the 11th. inst.

The reason the bills have been unpaid in Brockton is that it was impossible for us to deal with ~~them~~ until getting Mr. Rich's approval of same. This approval came to hand during my absence from town. I returned this morning and will pay them all up immediately they can be passed through our books, which will be I presume either to-morrow or Monday.

Very truly yours,

*Fal*  
*y*



1883-10-12

October 12th, 3

W. R. Dooty, Esq.

Shamokin, Penna.

Dear Sir:-

I found your telegram here when I returned from Williamsport.

I shall be in Shamokin Monday morning, and shall hope that things will be in shape by that time.

I have just got the first small delivery of the new cable. Will you please wire me in the morning the quantities and sizes required by Floyd of this material. If he ~~can~~ calculates on single wire, I will know how much double wire to ship.

Very truly yours,



1883-10-15

October 15th.

3

F. R. Upton, Esq.

East Newark, N. J.

Dear Sir:-

Referring to your favor of the 13th. inst., I have thought over your proposition as to English orders, and I am strongly of the opinion that we should not give way to them on the question of prices, as if we do we will be compelled to take the same course all through, and they are such desirable customers that we need trouble ourselves about bidding very closely for their trade.

Very truly yours,

*Jul*  
*7*

1883-10-15

October 15th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

Referring to your letter of the 11th. inst. to Mr Edison  
he says that he thinks that you can figure on what the Shamokin  
people require for their Opera House yourself. If so, will you  
please get up a sketch of the regulator and send it on, and we will  
have Bergmann estimate on it.

Very truly yours,



1883-10-15

October 15th.

3

Gardner C. Sims, Esq.

Providence, R. I.

My Dear Sims:-

The speed indicator which we use in the central station is made by T. R. Harding & Son, Tenter Works, Luddes, England but they have agents some where in Boston. I do not, however, know the agents address, and we do not appear to have any spare indicators on hand. I should think some of your Boston friends could probably assist you towards getting one.

Very truly yours,

S.S.  
7

1883-10-75

October 13th. 8

W. S. Andrews, Esq.

Franklin House,  
Lawrence, Mass.

Dear Sir:-

Referring to your letter of the 11st. inst., to Mr. Edison, as far as I understand there are three ampere meters at Shamokin, whereas our contract only calls for one, and my impression is that we shall have to stand the loss of the other two. One ampere meter would have been sufficient, I presume, for them to get along with, although of course it is desirable to have two and much better to have three. My idea was to let the matter run on until we had settled our contract, and then if they wanted more than one they could order it. I cannot find any record in my office of having ordered more than one ampere meter from Bergmann. When I complained to him that three were sent, he says I must <sup>sent</sup> blame you, as they were at your request. Chamberlin knows nothing about what ampere meters should go to one place or another. I know your inclination is to communicate with us in all matters before doing anything, but what I want to get at is, in this special case, whether it is Bergmann's "bull" or your instructions, or some remarks of Mr. Edison to Chamberlin, which caused three ampere meters to go to Shamokin, which is a loss to us of about \$40.

*B. J. v.*

1883-10-15

When he gets there.

October 15th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 11th. to Mr. Edison, we have talked the matter over of the Lawrence central station and have come to the conclusion that the best thing to do is to give you Carte Blanche to let you make such arrangements as you see fit. Will you please do it on as economical a basis as possible.

I think Mr. Edison will be in Brockton some time towards the end of the week, probably about Wednesday or Thursday, and he will have a pressure indicator with him, which is just the "boss". When he gets there you want to go over and see it work. We propose taking out all the old pressure indicators and putting in these new ones.

Very truly yours,



1883-10-15

October 13th.

"Secretary",

Edison Electric Light Co., Limited,  
London, E. C., England.

Dear Sir:-

Referring to your Assistant Manager's letter of the 2nd. October, I beg to inform you that order No. 534 will be shipped by the Assyrian Monarch on the 14th. The engine has been in New York some days, but there is no steamer sailing earlier. Your order also for an 8<sup>1</sup>/<sub>2</sub> x 10 engine will be shipped at the same time. I may mention that our engine builders have so many orders ahead, and we ourselves have to order quite a large stock of engines in order to meet the demands against us in this country, that it is very difficult to send you an engine off-hand. If you are not prepared to carry a stock of engines you should order them well in advance, as otherwise we will have great difficulty in getting them for you by the time you require them.

Very truly yours,

*J. A. G.*

1883-10-15

October, 15th. 3

W. H. Doolley, Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Referring to your favor of October 10th. to Major Eaton in relation to the installation of your plant at Fall River, I would state that we are pushing everything in order to have the plant installed at the time stated, namely, the end of November. You must really leave it to us as to whether we shall commence any particular part of the work. We do not dare to send men to Fall River to make a show there, and get some part of our work through a month before the other. This we cannot afford to do. Everything so far is going on very well, with the exception of the tubes, and I am inclined to think that your not writing to me guaranteeing the tubes, so as to enable us to order them, may cause us some delay. So far we have had to make considerable sacrifices in order to get promises or deliveries of tubes at all. I fancy, however, that Mr. Rich has been to Fall River since you wrote, and is preparing to start his portion of the work, which I can assure you is the quickest done, and, consequently, should be really the last commenced. If you will please have a little patience and not think that we are doing nothing, simply because you



1883-10-15

do not see a whole army of men in Fall River, I think you will  
find the thing will come out all right..

Very truly yours,

Fal  
7

1883-10-15

October 15th, 1883

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

Your telegram of the 13th. came duly to hand.

We have not a very high idea of Johnson's qualifications, and have been endeavoring to get a man more suited to our work, but we have not at this writing been able to get the man that we want, and until we do get one it is quite impossible to recall Johnson. Meantime we would like to ~~know~~ from you some further information as to the trouble with him you complain of.

Very truly yours,

Jab  
J

1883-10-15

October 15th. 1883

John W. Lieb Jr., Esq.

via Manzoni, 12 A,  
Milano, Italia.

Dear Sir:-

Referring to your favor of the 27th. September, I regret to say that I cannot send you the rigging you ask for unless I get an official order for same.

With relation to the valve motion attached to the Armstrong & Sims engine, which you say is broken, I can give no explanation, except that the trouble must have occurred after the engine left here, as before we shipped it it was thoroughly tested.

Very truly yours,

*Jal*  
7

1883-10-15

October 15th.

3

W. A. Stern, Esq.

830 North 5th. St., Phila. Pa.

My dear Mr. Stern:-

Your two postals of the 14th. inst. just to hand.

We are having the library removed from Mr. Edison's house to this office, and as soon as the books are in order I will look up "Gordon's Electricity and Magnetism" and send it to you.

I am sorry to hear that you have been eight weeks in bed suffering from such an accumulation of troubles, but it is a great relief for me to know that such troubles are of a legitimate instead of an illegitimate nature.

Hoping that you will soon be well, believe me,

Very sincerely yours,



P.S. Owing to my having to go out town, this letter will have to be signed by my assistant, as I dictated it on Sunday, and it will be written on Monday.

1883-10-16

October 15th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Dear Sir:-

I have your favor of the 10th, inst.

I do not care to stand the expense of your sending a man to start your engines in our stations. I think that you should supply us with an engine which we can start ourselves, we such men as we have.

Very truly yours,

*G.C.S.*  
*P.S.*

1883-10-16

October 16th. 3

P. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

We beg to acknowledge with thanks your voluminous letter of the 16th. inst.

At the moment we will only deal with one or two points.

I have received your telegram asking us to recall Johnson, and this morning wired you to have him return to New York at once. I told you, if you have the money, to give him \$30., and if you had not to draw on me at one day's sight for that amount and to take Johnson's receipt for it. We are very much surprised and disappointed in this man.

In relation to pressure indicators there have been vast improvements made in these within the past few days, and the difficulty you have met with will be entirely overcome when the new indicators are placed in service. Mr. Edison will go on to Brockton to-morrow or the next day and will have one of these with him.

At the moment I have no time to deal fully with your letter but will do so this evening or to-morrow.  
Very truly yours,

*A. J.*

1883-10-16

October 10th. 3

Thomas P. Conant, Esq.

Weavers National Hotel,

Shanokin, Ponna.

Dear Sir:-

I fancy that I have left my bunch of keys in room 10.

Weavers National Hotel:

Will you please enquire as to whether a bunch of keys  
were found in that room, as I am absolutely keyless.

Very truly yours,

S. J.  
H.

1883-10-16

October 13th. 8

H Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brookton, Mass.

Dear Sir:-

Mr. Sprague informs me that one 60 light meter complete and one 40 light meter were shipped to Borgmann & Co's on the 12th. from Brookton, and says that it is your intention to write Messrs. Borgmann & Co. on the subject.

In relation to defective material, we particularly desire that all your correspondence shall come to this office, inasmuch as we order the material and there should be no communication between the parties receiving it and the parties from whom we order it, as we expect those who receive material to consider it as coming from us.

I trust that any complaints you have to make about this matter you will send to us at the earliest possible moment, and enable us to have the matter corrected.

Very truly yours,

*W. L.*



1883-10-16

October 16th. 8

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 13th. inst. in reference to lengthening the boiler room of the Fall River station, and in reply we have to say that if you will build a manhole door for cleaning purposes at the point X shown in the attached sketch, both boilers can be entered from flues. This arrangement should be effected for the first pair of boilers installed, and the same arrangement will be necessary for other installations in the future. You could also obviate the difficulty by having the doors on the top of the flues, as shown on several prints, so that with either of these arrangements no alterations need be made in the building or piping.

We are going to order forward at once all the material for Fall River, and trust that you have made the necessary arrangements for receiving and storing it until such times as it may be required to be used.

Very truly yours,

*SL*  
7

1883-10-16

October 16th.

3

Ball Engine Co.

Bres., Panna.

Dear Sirs:-

We beg to acknowledge receipt of your favor of the 12th inst. in reference to your automatic cut-off engines.

In reply we would say that it would be necessary for us to make a long test of an <sup>1</sup>8' x 10' or one that size at our Works, 104 Goerck Street, New York, before we could think of negotiating with you in relation to the use of your engines for electric lighting purposes.

Very truly yours,

*246*  
*9*

1883-10-17

October 17th.

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I have your letter of the 14th. inst., and in reply beg to state that Mr Edison insists that the regulation of the 400 light machines must be taken care of in the same method that we now take care of the spare 600 light machines. Now this is to be done I do not know. Mr Johnson suggested an arrangement of switches to be interposed in the line between the resistance boxes and the field and then you could plug in either one of the small machines or both of them on one side or one on each side. You figure on this, and let us hear from you further about it, as it is hardly a matter which I have the ability to discuss in correspondence.

Borgmann has been getting up a new regulator something like the regulators used at the central station. My impression is that we will put this in our central stations in the place of the regulators already sent out.

I do not know when you will get the new pressure indicators. Can you get along with the old form of indicators? If so, I can send these to you at any time. We intend to send out

1883-10-17

2

the new pressure indicators, which an Edison has been getting up, since you left, and which has been working like a charm, but this will not be ready for some time, and of course the stations cannot be kept waiting in consequence thereof.

I will let you know concerning the plug reader switches and safety catches. The first dozen had a backboard, in fact those sent to Lawrence had a backboard originally, but they were taken off the board at the request of Mr. Sprague, who considered the board useless. I must say that I agree with you as to the advantage of having the backboard.

I have written to Sulgan about what you say as to dynamos. I do not know exactly when you will get the 400 light machines, may be a week or two.

Mr. Ford has written asking for a motorman. Cannot you deal with the matter until Conant is able to leave Shennokin? I would much prefer that you should do this, as we have no man to send you anyway, and I know you would like to have Conant with you, so I would like you to get along until he can go to Lawrence. He was "all broke up" at my telling him he would have to stay a week or two longer in Shennokin, when I was there the other day.

Very truly yours,



1883-10-17

October 17th, 1883.

A. A. Cowles, Esq. Secy.

19 Cliff Street, City.

Dear Sir:-

I have recently received a number of complaints from the Machine Works about errors in the delivery of wire and copper rods. Such errors necessitate the return of the material, and, consequently, a very great delay to us at the Machine Works.

I write to draw your attention to the matter, thinking that it is probable that you may not be aware of same.

Mr. Seldan, our Superintendent, told me this morning that he would call to see you in the course of the day about it.

Very truly yours,



1883-10-17

October 17th.

Paul D. Byer, Esq.

Kansas City, Mo.

Dear Sir:-

We have your letter of the 11th. inst, dated from  
Cynthiana, the canvass of which place arrived here on the 13th.  
inst.

I wired you on the 13th. to go to Maysville and make a  
canvass of that town after you had finished Kansas City. Mr  
Stuart is very anxious to have Maysville canvassed without delay,  
and I therefore wish you would use all possible despatch in getting  
through the town you are now in.

Very truly yours,



1883-10-17

October 17th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We are this morning in receipt of your favor of the 15th. inst., and in reply beg to say that we have instructed Mr. Dyer to return to Maysville and make a canvass of that town after he has finished Kansas City.

We note with much satisfaction your statements as to the organization of the Tiffin Company and the prospects of closing a contract with them.

Under separate cover we send you the estimate for a 1000 light plant for Tiffin with street installation to cover 1700 lights. In our telegram of the 12th. we explained to you that the building which we proposed erecting was to be of brick with stone foundation, and the cost of same \$4,000. If you prefer a frame building, we will erect one suitable for the purpose for \$1,400., but inasmuch as there is not a very great difference between the price of the frame building and the brick building, we beg to suggest the advisability of erecting the latter.

In relation to temporary fixtures, if you do not wish us to supply these you can cut the amount (\$184.03) out of our estimate, and make arrangement to put in permanent fixtures from the

1883-10-17

2

start.

In relation to other estimates, we hope to send you before the end of the week Middletown and Piqua, each a 300 light plant, as you requested.

Trusting that our Tiffin estimate will be found satisfactory, we remain,

Very truly yours,

*T. A. J.*

P.S. We presume you understand that our bid for the street installation only holds good providing the necessary grants and concessions for the erection of our poles and running of our wires, in accordance with the red lines shown on the map sent herewith and marked Exhibit "A", are obtained by the local company. Should they fail to obtain any of these and thereby put us to any additional expense, from having to change the course of the pole line system, it is understood and agreed that they shall reimburse us for the expense.



1883-10-17

October 17th.

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Your letter of the 14th., containing resolution passed by the Hollifonte Company, and letter from Mr Harris, secretary of the same Company, and your telegram of this morning have all been received, and in reply to let us say that we will have a canvasser at Hazleton to-morrow or the next day, and after he finishes up there he can go to St. Catharines.

If we close a contract with the Hazleton company before the 1st. November, we will undertake to put the plant in and have it running before Christmas. A canvass of the town should occupy about four days, and a week after its receipt in this office we could have the maps prepared and the estimate turned out. Just here we wish to remark, that we are really surprised that the breadth of the Hollifonte Company was taken away by our estimate. For a plant of that size, (\$1,000.) we considered the estimate very fair. We will, however, comply with their request and send them an estimate for a 500 light plant at the earliest possible moment.

Very truly yours,

SJ

1883-10-17

October 17th, 1883

Cassidy Solcan, Esq. Supt.

104 Cochrane Street, City.

Dear Sir:-

Mr W. S. Andrews writes me as follows from Lawrence:-

"Concerning the 'H' dynamo, the small square headed bolts used in clamping the connections on the head board should be stouter. I found two of them badly bent here, and I broke one at Shamokin. When I was in New York I provided myself with two spare ones, or I should have been obliged to have had some made here. The two stop pins in groove of rocking arm are useless and in the way, I have had them chipped ~~off~~ every-case."

I thought you might like to have the above remarks from Mr Andrews, as he is probably one of the best posted men we have at the present time.

Yours truly,



1883-10-17

*Electric Pen*

October 17th.

3

John F. Rogers, Esq.

102 India Square,

Boston, Mass.

Dear Sir:-

We have your favor of the 15th. inst., and very much regret the unavoidable delay which has taken place in supplying you with the duplicating ink. We are having some made up for you and will send it to you as soon as it is ready, which will be in a day or two.

Very truly yours,

*J. F. Rogers*

(883-10-17)

October 17th.

3

John Ott, Esq.

252 Avenue B, City.

Dear Sir:-

I enclose you herewith receipt for making the duplicating ink. Please make up about a gallon of this and advise us when it is ready.

I also attach two statements, showing the amount of cable (No. 16) which has been delivered at 252 Avenue B for us. One shipment was made on October 11th. and the other was made yesterday. We shall be glad to know if you have received the shipment of October 11th., and if you are having the wire weighed, as it comes in, and stored in the Laboratory.

In relation to mercury, we sent a box over to you yesterday which we presume contains the missing article. Please fill all our orders for sulphate of zinc and mercury as quickly as possible.

Very truly yours,

SL

Enclosure, c.

1883-10-18

October 18th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I forward you per early mail chart of Middletown, Ohio,  
with mains and feeders marked off as per determination herewith,  
which please check and comment if necessary, and return as early  
as possible.

Very truly yours,



1883-10-18

October 18th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Friend Sims:-

Wright, Upton's man at Boston, is very fond of blackguarding the Edison business. It all comes out of some dealings I had with him with relation to the Jarvis setting at Lawrence. He told me that Mr. Clarke had undertaken to pay for the setting, if we would order it put in. I consequently ordered it put in, as it would cost us nothing, and Mr. Clarke stated that he had not undertaken to do any such thing, so that the Jarvis setting was not put in. This irritated Wright, and to relieve himself he talked in a manner to Rich which is hardly becoming to the representative of engine builders who have such a champion in Mr. Edison. I should not have written to you about this matter, but I heard of Mr. Wright's remarks through another source. He is doubtless a very good fellow, but he has not the ability to be discreet in what he says, and I should advise you to give him a hint to be more so, the next time you see him.

I was very sorry to hear Mrs. Armington, as I would like

1883-10-10

2

to have seen her.

I have cabled home to my mother asking her to wire Mrs. Armington at Queensland inviting her to stay at our house in London during her visit to that City. Please tell Alice this, as I told her I would send such a cable.

Very truly yours,

A handwritten signature, possibly 'S. J.', written in dark ink over the typed name 'Very truly yours,'.

1883-10-18

October 18th. 3

R. Adams, Esq.

City.

Dear Sir:-

Agreeably with your request, I beg to give you below an estimate of the probable running expenses in connection with the electric light installation which it is proposed to make at the Navarro Plate:-

DAILY.

Electrician and meterman.....	3 3.50
One engineer, seven months .....	4.20
Two engineers, five months .....	3.00
One fireman.....	3.00
Coal 4 lbs. H.P. per hour at 3d. being 3 tons year round.....	5.00
Oil, waste.....	.50
Water.....	1.10
Lamps at \$1. each.....	15.00
Insurance.....	1.50
Depreciation (long).....	11.50
Repairs.....	1.50
Stationery.....	.30
Forward.....	50.00



1883-10-18

Forward.....	\$30.00
Water supplies.....	.25
Fire grate bars.....	.20
Taxes.....	1.30
Carting ashes.....	.25
Extras.....	<u>2.00</u>
Total.....	\$37.80

Above based on a daily average of three hours use of the 4000 lamps during the year.

Taking into calculation that parties be absent two months in the year and that only 4000 out of 11000 lights is figured on, it is believed this average is correct.

Adding five per cent interest on say \$100,000., which for 303 days is \$13.50 per day, the daily running expenses will be \$70.80, or \$25,575.50 yearly.

4000 burners burning equal to five cubic feet of coal gas would be 20 lbs per hour or 60 lbs per day of three hours average the running expenses being \$70.80 daily, would bring the cost of each lb equivalent to \$1.16. Paying gas at \$2.25, would make a loss of \$94.10 a day to the occupants of the flats.

Interest at five per cent being already allowed, this

1883-10-18

3

\$34.10 would pay twenty three per cent more on the \$100,000, or altogether twenty eight per cent on the investment, and the investors would obtain a vastly superior article.

very truly yours;

*Zab*

P.S. With 1st apartments, this would be \$740. for each, as investment and light bills would be about \$16.75 per month.

1883-10-18

October 18th.

3

T. Adams, Esq.

City.

Dear Sir:-

Referring to your request for an estimate for the installation of an electric light plant and other electrical work at the eight Navarro Flats, 36th. Street & Seventh Avenue, I beg to state that we will, with the permission of the Edison Electric Illuminating Company of New York, install for the sum of eighty nine thousand eight hundred and fifty dollars (\$89,850.) an electric light plant which will supply at one time 4000 lights, giving ten candles spherical illumination, which is about equal to five feet of coal gas as burned in practice. The plant can be forced on occasions to run 4500 lights. The Edison Electric Illuminating Company will guarantee that the life of the lamps will average 600 hours, when they are run at their rated power of ten candles each, and will also guarantee that ten lamps can be obtained for every indicated horse power.

In addition to the above, the amount named (\$89,850.) includes the wiring of all the Flats for about 11000 lights, the wiring for telephones, electric bells and district telegraph calls to a central station in the Flats, the rostering of the plastering where it is necessary to cut holes in the walls and ceilings, the

1883-10-18

2

furnishing of switch-boards and the fitting up of a central station except the telephones, which you will have to obtain from the Telephone Company, and also the furnishing and erection of speaking tubes throughout the Flats.

The terms of payment that I should require, if a contract is entered into, are as follows:-

Twenty five per centum of the amount of the contract on the signing of same, twenty five per centum when the engines, boilers and dynamos are in their place, twenty five per centum when the electric light installation is ready to supply light and twenty five per centum thirty days thereafter.

Yours truly yours,

*Sal*

1883-10-14

October 16th.

3

Dr. O. A. Moses,

155 East 77th. Street, City.

Dear Sir:-

I should like to see you sometime Saturday morning,  
if convenient to yourself, with relation to your arc lamp shipped  
to Mr. Hatchelor.

I have a communication from him in which he requests me  
to see you on the matter.

Very truly yours,

J. A. E.  
J.

1883-10-19

October 18th.

3

Paul D. Nyer, Esq.

Metropolitan Hotel,

Kansas City, Mo.

Dear Sir:-

Your two interesting epistles of the 14th. inst. were duly received, and I certainly think that you deserve a pretty medal for your bravery, and have no doubt but that your exploits will find a place in your Country's history. To face the braves of the West most certainly requires a man of your spirit, and it is for that reason that you were chosen for the onerous and risky enterprise which you now have in hand. All I hope is that if the worst should occur that you will leave such directions as will enable us to dispose quickly of any balance of account that may be still be due to you in this office.

When you get through at Kansas City return from the western wilds to the civilized and fertile regions of Kentucky and finish your canvass at Naysville.

Meantime, trust in God and keep your powder dry, and remember that the man who gets his hand in his coat-tail first has the best chance.

Very truly yours,

*S. Insull*  
7.

1883-10-19

October 19th.

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

I have your favor of the 10th. inst.

Mr Edison thinks that what you propose for Shemokin  
would do very well.

Will you please let me know as early as possible when  
you think you will be able to start at Lawrence?

Have you the ampere meters and the feeder indicators  
there?

Very truly yours,

Saml. Insull  
J

1883-10-19

October 19th.

3

J. C. Tomlinson, Esq.

City

Friend Tomlinson:-

I enclose you herewith a letter from George H. Mackellar with relation to the claim of Charles E. Roesap.

We owe Charles E. Roesap about \$1,400., and which we proposed paying him if he had not taken this means of bringing it to our notice. What he refers to as a compromise or account never took place at all. Now if we were to let Charles E. Roesap sue, it would take him a certain time to win his suit and would also cost him money in addition. What I want to get at is about what it would cost him, and also how long it would take, under the most favorable circumstances, to gain his suit? Then I propose making a settlement with Mackellar or having you do so for the amount of \$1,400., less what it would cost Mr. Roesap to sue us, and I will extend the payments over the same period as it would take him to win his suit, in fact I propose getting even the the young gentleman. What he claims is an amount which Mr. Edison made him a present of. If you are anywhere near Mackellar's office to-morrow you might call and see him and show a little fight, and state that

1883-10-19

2

the letter has come into your hands in the absence of Mr. Edison and his private Secretary.

Very truly yours,

Edison



1883-10-19

October 19th. 8

W. J. Jonks, Esq. Manager,

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

I shall be glad to hear from you as to when you will  
be prepared to take over the station and run it independent of  
any assistance from my people.

Very truly yours,

W. J.  
J.

1883-10-19

October 18th.

3

A. E. Beach, Esq.

201 Broadway, City.

Friend Beach:-

Will you proceed with the publication of the article on "storage battery". One alteration, however, should be made on the seventh line of the seventh page of manuscript, change the figures 10 to 37, as they ought to read 37 instead of 10.

Can you manage to publish the article in your next issue, as we should like to copy it from your paper into the next Bulletin to be issued by the Edison Electric Light Company, but of course we cannot do so until after your publication of the article has taken place?

Very truly yours,

T. A. E.  
J.

1883-10-19.

October 18th. 3

W. Ward Leonard, Esq.

care Edison Electric Illuminating Co.  
Brockton, Mass.

Dear Sir:-

Your letter of the 13th. came duly to hand.

The report you sent me is exactly what I want.

With reference to carrying three wires into a house, I think it is necessary in small plants to divide the lights partly on to the "A" and partly on to the "P" side.

With reference to your complaint that it is impossible to see how many lights are on one side and how many are on the other, the variation in the amperes meter every evening ought to show you what you want in this connection.

Very truly yours,

J. A. E.  
J.

1883-10-19

October 19th. 3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Referring to your favor of the 4th. inst., the reason that we charge so much for our 300 light machine is that we have so few orders that it is impossible for us to sell cheaper. In addition to the more cost of the machine, we have to stand all the heavy experimental expenses at the Machine Works, as owing to troubles I have had with the Light Company I decided I would not put in any payments to them for this kind of work.

Very truly yours,

J. A. E.  
J.

1883-10-19

October 19th. 3

N. W. Pratt, Esq.

care Babcock & Wilcox Co.

30 Cortlandt Street, City.

Dear Sir:-

Mr. William Burrows, Freight Broker, of 46 Broadway, called on me this morning soliciting our freight, and mentioned your name as a reference.

We have a very great deal of freight, and in order to get good rates and proper attention, I have for sometime been thinking of the advisability of putting it into the hands of a broker.

Will you please advise me what you know of Mr. Burrows, and what your Company pay him for any business he may transact in the business above referred to, and by so doing you will very greatly oblige,

Yours very truly,

N. W. P.  
7

October 20th.

3

Otto A. Moses, Esq.

City.

Dear Sir:-

I have received from Mr. Batchelor a letter dated October 5th, in which the following paragraph occurs:-

"Now about Moses lamps, I have written Moses twice but get no answer. It was understood by Navarro and myself and Moses that they should send me 6 lamps to Antwerp and the models to France to manufacture, on this I told Bergmann that they would send me 6 lamps. Now the fact is I have received here 6 lamps in Paris, and I don't know whether Moses wants his patents protected, as I cannot get a word from him. In the meantime there are people trying for are lamps. Will you please tell Moses about this and if I don't get any answer from him, I shall simply put them up here and he must look after his patent interests himself. Of course there is no question about the price, but the people here have paid for these lamps, and feel hurt because I won't let them put them out to the public."


Will you please let me have your answer to same at your

1883-10-20

2

early convenience, so that I can reply to Mr. Batchelor's letter.

Very truly yours,



1883-10-20

October 20th. 3

W. D. Rich, Esq..

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have your letter of the 18th. inst. and your telegram of ~~the 18th~~ 19th date saying that you had received the sketch we sent you.

In reply we would say that the long upright iron door can be put in party wall with safety by placing a tight wooden door outside of it. I attach a sketch and explanation which I trust will make the matter clear, and convey to you the way in which we understand the matter and our solution of the difficulty, which latter we would prefer adopting instead of lengthening the boiler room, and we trust you will give it your consideration and avoid making the extension referred to.

In reference to grate bars for the Brockton ~~boiler~~ ~~boilers~~ we have to-day sent to Mr. Sprague a bill of lading, and they went forward on the 18th. inst. We have an invoice from Messrs. Babcock & Wilcox charging us with these bars, and as the cost is \$200., we shall be glad to know, if, in your opinion, we should pay the amount. We think we understood you to say that there was some defect in the bars supplied with the boiler, and that these

1883-10-20

2

had to be sent to replace them. If this is the case, it is our  
desire to refute the charge.

Very truly yours,

*Lak*  
J

Enclosure, b.



1883-10-20

October 20th.

3

C. H. Cooke, Esq.

Globe Hotel,

Syracuse, N.Y.

Dear Sir:-

We have received your letters of the 17th. inst., together with map and canvass of Auburn. When we are through with the former we will return it to Mr D. M. Osborne.

We wired you to-day to canvass Hudson and Poughkeepsie on your way to New York.

In reference to counting the number of lights in each store once on Saturday night in order to get the difference in the amount of consumption on that evening from the balance of the week, we consider that your canvass should embody this information, and shall be glad if you will always send it to us in places where there is such a difference as you mention.

Very truly yours,

*2ab*  
*7*

1883-10-22

October 22nd, 1883.

Gustav Seldan, Esq. Supt.

Edison Machine Works,

104 George Street, City.

My Dear Sir:-

I find that your system of charging everything up to stock and then charging it out again to various orders on which the machines are being <sup>made</sup> ~~used~~ does not work at all well so far as my office is concerned. We are having endless trouble in trying to "decipher" the alleged memorandum material used, which memorandums are prepared by Mr Dodge. If the system, which I inaugurated on your suggestion, is persisted in it will result in an extra expense of about \$50. a week so far as my clerical force here is concerned, and such an expenditure is entirely out of the question. <sup>There</sup> ~~They~~ have come to the conclusion that the old system is by far the better of the two, and I write to inform you of this, as when I get back to town the end of this week I wish to arrange with you to return to the old method of stock keeping.

Furthermore, when a few days back Mr Edison enquired of me the method now pursued as to this matter, I informed him that we were dependent for the charging of our material entirely to memorandum prepared by Mr Dodge, and Mr Edison politely informed me that under such circumstances he would not consider my books worth a "damned", as he has absolutely no confidence whatever in any

1883-10-22

2

statements prepared by Mr. Dodge. He gives as his reason for this, that Mr. Dodge made so many mistakes while engaged in the mapping department of the Edison Electric Light Company, and all of which mistakes were of such a character that it would be impossible for him (Mr. Edison) to have any confidence whatever in the work of any one capable of ~~committing~~ making such mistakes as I refer to.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and appears to be 'T. Edison'.

1883-10-24

October 24th. 3

C. F. Brackett, Esq.

Princeton College,

Princeton, N. J.

Dear Mr. Brackett:-

I beg to acknowledge with thanks your letter of the 18th. inst. together with your letter of the 11th. inst., which we once before received without signature.

I should take great pleasure in going to Princeton to see your dynamometer in action, but unfortunately my present press of business prevents my leaving New York. I have asked Mr. Clarke, the engineer of the Edison Electric Light Company, to go to Princeton and examine the instrument.

Very truly yours,

Lake

1283-10-24

October 24th, 1893

Gustav Seldan, Esq. Supt.

104 George Street, City.

Dear Sir:-

In relation to the flexible cable used on the "H" dynamos, we consider that this should be more thoroughly insulated. The present insulation is liable to wear off and cross the poles on base, and we shall be glad if you will give this matter your consideration.

Yours truly,

*W. H. P.*

1883-10-24

October 24th.

3

Messrs. Hermann & Co.

353 Avenue B, City.

Dear Sirs:-

We are informed that you are sending fixtures to Brockton wired with white wire without any tape. This will cause very serious trouble, as the covering absorbs moisture and causes a decided leak, and since this defect has been remarked by everyone who has had any experience with the wire, we consider it very bad policy on your part to supply such material, but feel satisfied that when we call your attention to the matter you will have it adjusted.

Very truly yours,

*J. A. H.*

1883-10-24

October 24th. 3

W. J. Jenks, Esq., ~~Manager~~,

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your favor of the 17th. inst. to Mr. Edison,  
I beg to say that it is his intention to go to Brockton just as  
soon as he can leave New York.

For the past few days he has been confined to his bed,  
but we expect to see him out again to-day or to-morrow.

Very truly yours,



1883-10-24

October 24th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

In relation to safety catches, we beg to say that the white plugs are all right. Bergmann sent a lot of bad plugs to Brockton sometime ago, and in our opinion these ought to be returned. If you will hunt these up and send <sup>them</sup> back again we will have them replaced by new ones. ~~Please~~ Please notify us when you do so.

Very truly yours,

*Gale*



1883-10-24

October 24th. 3

P. E. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to return herewith letter from Mr. Schwenk in reference to Mt. Carmel received with your favor of the 30th. inst.

We are having a canvass made of this place with all possible despatch. Our canvasser is at the moment in Hazleton, but will in a day or two go to Mt. Carmel and send us the necessary data to get up plans and estimates.

In regard to the people at that point having secured the ground for a central station, we consider it rather a mistake to be too premature about a matter of that kind, as the location of a lot may make a considerable difference in the amount of our estimate.

In regard to my going to Mt. Carmel to stake off the building or for other purposes, at the moment it is impossible for me to leave New York, and in any event I hardly think that the laying out of the building is such a serious undertaking as to require my personal attention.

We will rush this matter through just as quickly as possible, and write you again when we have something definite in connection with the estimate to submit.

Very truly yours,

Enclosure, 2.

*D. A. G.*

1883-10-24

October 24th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to enclose a letter from Mr. W. G. Sticker the  
Chief Burgess of the town of Milton, Pa., in which he enquires  
about the cost of the electric light. As it is in your terri-  
tory <sup>you will</sup> we presume attend to it.

Very truly yours,

*T. W. H. H.*

Enclosure, H.

1883-10-24

October 24th. 3

M. P. Moore, Esq.

City.

Dear Sir:-

In regard to Mr Oakley, I shall be glad to do what I can to get him a situation.

I think the German Company asked for a motorman, and it would be a good idea for Oakley to go to Bergmann's and Goerck Street and learn all about making motors. We would also have him coached in the interests of the commercial part of the business, and when he has completed his education we can then send him to Berlin.

Very truly yours,

*Tracy*

1883-10-24

October 24th. 3

W. D. Rich, Esq.

Care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We beg to enclose you herewith duplicate bills of lading together with shipping list of the Fall River boilers which went forward on the 22nd. inst.

With relation to firebrick, we would like to know if you use any firebrick lining in your stack foundations? You will notice that in all of our estimates we include 14' of brick stack with this description of lining, but if in practice this arrangement is not observed and if you do not consider it necessary we would like to know about it in order that we may in future leave it out. *of the estimate*

Very truly yours,

*Zak*

1883-10-24

October 24th. 3

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

I am in receipt of a letter from Mr. Sprague at Brockton, who says that they had some trouble on the night of the 16th. inst. on account of the exhausts from the dynamo overflow pans leading into the engine exhaust. The drip pipe rises after leaving the exhaust a considerable amount and the result is that a quantity of water always collects in the exhaust and upon starting up this is sometimes forced into the overflow pans on the dynamo and large quantities of water are thrown out from the exhaust, after being lifted not less than thirty feet. While I was at Brockton this same trouble occurred twice, and I am afraid that some day the consequences will be very serious. The drip should fall instead of rising, so that the water might run off, and I wish you would kindly give the matter your immediate attention.

Very truly yours,

*Jahy*

1883-10-24

October 24th, 1883

Hall Engine Co.

Erie, Penna.

Dear Sirs:-

Replying to your favor of the 17th. inst. in relation to our making a trial of one of your engines, we beg to say that we should be glad to make a test of a 8 1/2 x 12 engine, which would require a 50 inch pulley. It would be necessary for us to keep this engine one month, and if you are agreeable to bear the expenses in connection with the test, Freight &c. we will be glad to make the trial.

Very truly yours,

*J. L. King*

1883-10-24

October 24th, 8

John Campbell, Esq.

Post Box 637,

Pittsburgh, Penna.

Dear Sir:-

I have your letter of the 16th. inst., and in reply regret to state that there is no position here which I can offer you at the present time.

I shall keep your name before me and shall be glad to do anything for you that I can in my own business, but outside of that

I fear my influence with Mr. Carrett would not attain the end you

desire, and I personally prefer not communicating with him for this object.

Very truly yours,

J. A. L.

1883-10-24

October 24th, 83

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 21st. inst., and in reply would say that we have referred that portion which relates to the safety catch thumb nuts to the proper parties for their attention, and have written Mr. Molden in regard to the flexible cable on "the" dynamos being more thoroughly insulated,

It is not our intention to send a lightning arrester for Lawrence, as the system is underground and does not require it.

The meter scales are quite large enough to weigh 100 light meter plates.

Very truly yours,

*Tak*



1883-10-24

October 24th. 3

William Burroughs, Esq.

40 Broadway, City.

Dear Sir:-

Would you kindly call at this office any time you are passing and can find it convenient to stop in, as I want to see you about placing our freight in your hands.

Very truly yours,

*J. A. L.*

1883-10-24

Very truly yours,

October 24th. 3

W. S. Andrews, Esq.

Franklin House,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 18th, inst. in relation to the connecting up of the fields of the 400 and 500 light dynamos together, and in reply beg to say that we will have these boxes made so that they will go together.

In regard to having feeder switch and safety catch holder in one piece, I do not think this would always be found to work well and should advise keeping them separate.

Very truly yours,

Jaly

(823-10-24)

October 24th.

George W. Wilbur, Esq.

Post Office,

Mt. Carmel, Pa.

Dear Sir:-

We have your letter of the 21st. inst., and in reply would say that your canvass books are not quite completed, but we hope to be able to send them to you in a day or two. We ordered them to be made with 150 pages and also instructed the printer to leave more room for "Remarks" and "Nature of Business."

The Mt. Carmel people are very anxious to have an estimate for an installation at that place, and we wish you to get the canvass in the office here at the earliest possible moment.

Very truly yours,

*Gale*

1883-10-26

October 26th. 3

William Schwenk, Esq.

Mt. Carmel, Penna.

Dear Sir:-

We have your letter of the 20th. inst., and in reply beg to say that the canvass of Mt. Carmel will arrive in this office in a day or two. The maps will then be put in shape and the estimate made and forwarded to Mr. Shaw in a very short time.

Untill we know the size of the plant required, it is impossible for us to make any comments as to the engines or other material that may be required.

Very truly yours,

Jae  
5

1883-10-26

October 26th. 3

Major S. B. Eaton,

City.

Dear Sir:-

Referring to the attached we beg to say that there was no mistake in the plans of the Fall River building. We had this building so arranged that it would accommodate the extra boilers necessary to be supplied when the time came for increasing the capacity of the plant, but this we arranged in such a manner that "to clean them out it was necessary to enter them from the top" which is a very common thing to do. The Fall River people thought that they would prefer to have them so arranged that access could be acquired from the sides, and as it was merely a question of obliging these gentlemen we decided to yield to their views and consequently gave instructions to have the building lengthened six feet, which has been done.

Very truly yours,

Zac  
J

1883-10-2

*Hartford*

October 28th.

3

Messrs. Harris & Robinson,

Room 2, Frost Co's Building,

Hartford, Conn.

Dear Sirs:-

We beg to enclose you herewith estimates for the installation of Edison Electric Light Central Station plants at Hartford and Southington, Conn.

The former is for a 3206 lamps capacity with street installation for 4462 lights and amounting to \$72,643.20 and the latter for a plant of 950 lamps capacity with street installation for 970 lights and amounting to \$26,636.40.

Our bid for the street installation in the Southington estimate is ~~set~~ based upon the same conditions as set forth in our letter to you under date of the 22nd. inst. You will notice that the cost per lamp in this estimate is \$21.71, which is \$7.44 less per lamp than the 300 light plant, and further it only costs \$3,142.71 to increase the capacity of this plant from 300 lights to 950 lights, which is almost three quarters larger. In view of these facts we would strongly advise the adoption of the 950 light estimate as being the one more satisfactory in all respects.

In relation to the Hartford estimate, this is based upon the assumption that the central station will be placed upon

1883-10-26

2

the \$10,000. lot, the size of which is 60 x 90 and situated North of Alyn Street between Ann & Trumbull Street. We explained to your Mr. Harris, when he was in New York, that all our plans for Hartford had been gotten out upon the assumption that the lot we were to use was to be 60 x 90, and that if the 40 x 90 lot was substituted it would necessitate our cutting off a portion of the building which would admit of the plant being increased to 4800 lights only, unless it were possible to get more land when required at the back, so that the building might be extended. The cost per lamp of this estimate is \$22.70 which, without taking into consideration the very large number of lights covered by our proposed district, namely, 4492, is we consider a low bid.

We omitted to say in the foregoing part of this letter that we enclose statement of the daily running expenses and probable profits on a capitalization of \$30,000. for a 600 light plant at Southington. Were you to install the 650 light plant, the increase in the daily running expenses would be so small as to hardly be visible, while the per cent for dividends on the capital invested, which latter need not exceed \$30,000., would of course be much larger than that shown on the enclosed statement.

Under separate cover we send you the exhibits referred to in the enclosed estimates together with a plan of the arrangement.

1283-10-26

3

of the Southington station.

Very truly yours,

*Lali*  
J

Enclosure.



1883-10-26

October 28th. 3

F. J. Sprague, Esq.

Hotel Belmont,

Brockton, Mass.

Dear Sir:-

I enclose you herewith letter from Mr. Batchelor of  
Paris in reference to the possibility of working more than two  
amperes per millimetre on the underground conductors &c.

Please give me full replies to all of Mr. Batchelor's  
questions, in order that I may transmit them to him, and also  
return his letter with your memorandum.

Very truly yours,

*W. H. P.*

Enclosure, A.

1883-10-26

October 25th. 3

Frank H. McCornick, Esq. Pres.

Edison Electric Illuminating Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

We are in receipt of your favor of the 23rd, inst., and in reply beg to say that we are not in the least surprised to hear of the number of broken lamps in connection with your system at Sunbury.

We have received information from our agent, in constant whom we sent to inspect your plant and ascertain the cause of such breakage, and we find that you have been running these lamps not at ten candle power as they are intended to be run but much nearer twenty. If this course is pursued you cannot but expect to have a very large per cent of breakage. The lamps we sent you were some of those made up a short time since at the factory and the best that we have yet produced.

When Dr. Dotzler was here in New York he visited this office, and during the course of conversation he looked at our lamps and asked the candle power, remarking at the same time that they were not as bright as the light you were supplying at Sunbury. Those lamps of ours were giving at least eighteen candles, so it is therefore quite plain to us what the cause has been to result in

1883-10-26

2

such a large breakage of lamps as you report.

Our agent, who was in Sunbury a few days ago, advises us that Mr. Harr gave positive instructions to the engineer in charge of the Sunbury station to run the dynamos to their fullest capacity. He (our agent) explained to the engineer the disadvantages attendant upon such a proceeding, and regulated the lights.

If you will supply your customers with a quantity of "of light equal to ten candles for each lamp installed, you will find that your breakage will decrease very rapidly. It is much cheaper if customers want more light from a single lamp to supply them with an article designed for a more extensive illumination, but to try and get twenty candles from an article which is only intended to supply half that number is fatal to the long life of the lamp.

Trusting that in future you will regulate the light properly, we are,

Very truly yours,

Tae

1883-10-26

October 26th. 3

Thomas P. Conant, Esq.

care Edison Electric Illuminating Co.

Shanghai, Peking.

Dear Sir:-

This will introduce to you Mr L. C. Walker, whom I am sending to Shanghai to obtain whatever information you can give him in reference to our system of house wiring or anything else he may desire to know. Mr Walker will bring with him samples of the new wire which we are going to use, and he has such instructions from me that he understands the application of it, and I shall be glad if you will give him all facilities possible to enable him to obtain whatever information he requires.

Very truly yours,

Jae  
G

1883-10-26

October 26th. 3

W. F. Bouty, Esq. Pres.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

We have your letter of the 23rd. inst. complaining that the system at Shamokin has been working badly.

We received a letter from Mr. Conant explaining the cause, and it appears that a number of trees have been getting mixed up with the wires and causing crosses on the line. This of course is a matter which can be very easily remedied by having the trees either removed or trimmed, so as not to interfere with our system.

We were also advised by Mr. Conant that the governor on one of the engines was working badly, and we wired him to have it taken off and the flange brightened up, which will relieve all trouble.

We do not see that anything has occurred which would necessitate our sending anybody to Shamokin, as the parties there at present are fully competent to deal with the difficulties which have arisen.

Very truly yours,

*W. F. Bouty*

1883-10-28

October 28th.

J. F. Rogers, ~~Esq.~~

68 India Square,

Boston, Mass.

"Dear Sir:-

We have your letter of the 24th. inst., and must apologize for the delay which has taken place in supplying you with the duplicating ink. It is an article which we have not dealt in for such a long time that the recipe became mislaid and had to be hunted up, which took some time.

We have, however, much pleasure in stating that we have forwarded to your address by express yesterday one bottle of this ink. When you require any more ~~of this ink~~ we will be able to supply it more promptly.

Very truly yours,

*Edw*  
J

1883-10-29

October 29th. 3

E. H. Lord, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 20th. inst. in reference to a motorman, and in reply would say that we very much regret the delay which has taken place in furnishing you with such a person, but as this kind of a man is not picked up anywhere and we have had considerable trouble in finding one. We have pleasure in stating that we have, however, succeeded in securing the services of a first class motorman who has had charge of the Wosdell plant for some time past, and <sup>he</sup> will report for duty at Lawrence not later than the 1st. inst., and before that if at all possible.

Very truly yours,

J. H. Lord

1883-10-29

October 20th.

F. V. Upton, Esq.

East Newark, N.J.

Dear Sir:-

In relation to broken lamps received at Brockton, do you not think it would be a good idea to pack a half a dozen lamps and handle them roughly in the Laboratory, that is experiment on different manners of packing?

Yours truly,

*W. J. May*



1883-10-29

October 29th.

3

*P. J. Garrison*  
W. J. Garrison, Esq.

137 Federal Street,

Boston, Mass.

Dear Mr. Garrison:-

In reply to your letter of the 22nd. inst.,  
asking about the Dart Electric Railway, I should advise you to tell  
your friend not to put a cent into it. It is simply a "catch".

Very truly yours,

*J. A.*

1883-10-29

October 29th, 3

George H. Hopkins, Esq.

137 Temple Court, City.

Dear Mr Hopkins:-

Many thanks for your letter of the 24th, inst.  
in reference to the Sweet high speed engine now being exhibited at  
the Fair of the American Institute. I shall have much pleasure  
in going to see it in operation.

Very truly yours,



1883-10-29

October 26th, 1883

Gustav Soldan, Esq. Supt.

104 Coorck Street, City.

Dear Sir:-

There is a paragraph in Defect Report No. 34 to the effect that the wire bands binding the armatures got loose and came off on the machine which we installed at Harrison, Havemeyer & Co. shortly after starting. These armatures should have wire bound around them as in the central station machines. We never had trouble after we did this, and if you want any further explanation Billy Wright can give it to you.

Yours truly,

*Jae*

1883-10-29

October 26th. 3

A. Stuart, Esq., Secty.

Cincinnati, Ohio.

Dear Sir:-

In order to complete our map of Springfield, Ohio, it is necessary that we should have a correct chart of that town. We have written to the City Engineer twice asking him to make a tracing of his map, but without result other than that our letters have remained unanswered. Could you in any possible way obtain what we require, as it is absolutely necessary that we should have it before we can complete our work, and we shall be glad to hear from you at the earliest possible moment.

Very truly yours,

*S. J.*  
*P. S.*

1883-10-29

October 26th. 3)

W. M. Dooty, Esq.

Shamokin, Penna.

Dear Sir:-

We beg to acknowledge with thanks the receipt of your favor of the 25th. inst. enclosing Mr. John Mullen's check on the Shamokin Banking Company for \$1,000. on account.

In relation to putting your plant in proper shape, we have already written you on the subject, and trusting that you are meeting with no further difficulties, we beg to remain,

Very truly yours,

*Jue*  
*g*

1883-10-31

October 31st.

3

William O. McDowell, Esq.

120 Liberty Street, City.

Dear Sir:-

I beg to acknowledge receipt of your letter of the 27th. inst., and in reply would say that there are so many calls made upon my purse and as I am not interested in the Edison lamp factory, except as a stockholder, I do not feel that I can comply with your request.

I return the list herewith, and beg to remain,

Very truly yours,



Enclosure.

1883-10-31

October 31st.

3

John L. Rogers, & Co.

63 India Square,

Boston, Mass.

Dear Sirs:-

We are pleased to see that by your letter of the 27th. inst. you have received the duplicating ink.

In relation to an invoice, we cannot set a price upon what we have forwarded you, but will arrange with some stationer in New York for the manufacture of the article and will advise you as to where it can be procured in future.

Very truly yours,

*Sal*  
*L*

1883-10-31

October 31st.

3

E. S. Marsh, Esq.

21 East 23rd. Street, City.

Dear Sir:-

Referring to your favor of the 24th. inst., I beg to answer as follows:-

FIRST. The Phonograph is an invention of mine, but nothing has been done with it for the last few years, as my time has been so fully occupied with other matters that I can hardly say whether I shall be able to give attention to it further on.

SECOND. Electricity is already superseding and performing the present functions of gas and steam, but how long it will take <sup>us</sup> to ~~replace~~ the majority of the business it is ~~difficult~~ to say.

THIRD. I must refer you to the books for theories about the nature of electricity.

FOURTH. My laboratory is practically closed at the present time, and there is nothing of any considerable interest to a student being done there.

Very truly yours,

*Edison*



1883-10-31

October 31st, 8

W. Preston Dix, Esq.

230 West Main Street,  
Louisville, Ky.

Dear Sir:-

Will you please send us a plan of the lot on the corner  
of Greene and Alleys between Second and Third Streets, upon which is  
situated an old brick <sup>dwellling</sup> ~~dwelling~~ 74 x 160, price \$11,000. together  
with sketch of same showing the position of the house in relation  
to the boundaries of the lot in accordance with the spaces  
marked for distances on the sketch below.

Very truly yours,

*Zaa*  
*I*

1883-10-31

October 31st. 2

E. H. Ford, Esq. Trans.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 27th. inst., and in reply beg to say that we have made inquiries from the makers of the balance, which we sent to Lawrence, and find that you are right in stating that the capacity does not reach 300 grammes.

We will order for the use of the Lawrence Company a No. 8 balance to replace the one you now have, which latter we can use where 100 light meters are not called into requisition.

In relation to meters, we understand that your Order No. 1 called for fifty meters of 12 lights, twenty five of 25 lights and five of 30 lights, but inasmuch as we considered this arrangement both unequal and insufficient, we deemed it advisable to make a new arrangement and supply you with a certain number of each of the different units, the aggregate cost of which would be the same as those which we first proposed to supply. We shall, however, have much pleasure in complying with your request to exchange the 12 light meters for an equal number of 25 lights capacity and the 25 light meters for an equal number of 30 lights capacity. We will also have the necessary plates and rubber parts

1283-10-31

2

for the 12 light meters sent you without delay.

We presume you understand that the capacity of these meters is gauged upon the assumption that each light to be recorded by them is of 10 candle power, in other words, a 6 light meter is capable of recording ten 10 candle lights, a 12 light meter records twenty 10 candle lights, a twenty five light records forty 10 candle lights, a fifty light records eighty 10 candle lights and a one hundred light meter will record one hundred and sixty 10 candle lights.

Very truly yours,

Lab  
D

1883-10-31

October 31st. 8

W. H. Dwalley Jr. Eng. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We are in receipt of your telegram of to-day's date stating that Kruesi's men have been ordered home for ten days, and in reply to your query as to why you are being neglected we beg to say that inasmuch as the tubes will not be ready for ten days, we do not see the necessity of keeping a lot of men laying idle in Fall River and paying their expenses. You can rest assured that we are fully alive to the necessity of pushing your work and this we are doing to our utmost capacity, but we must really ask your kind co-operation which you can extend to us by exercising a little patience and placing a little more confidence in our capability of keeping the promises we have made to you, namely, to have the Fall River installation completed at the earliest possible moment.

Very truly yours,

*Edison*

1883-10-31

October 31st. 3

J. M. Douty, Esq., President.

Edison Electric Illuminating Co.

Shamokin, Penna.

Dear Sir:-

I have your letter of the 24th. inst.

I am very sorry that you should object to the use of the double wire at Shamokin without first enquiring of me as to the facts. The New York Board of Fire Underwriters do not trouble us in the least, except inside of New York City. In towns like Shamokin they do not interfere with our business at all, as the property involved is comparatively small and, furthermore, I am confident that eventually they will sanction the use of the wire sent you. So far they have not refused to sanction its use, and the matter has simply not been brought before them. I think that you make a great mistake to refuse to have it used at Shamokin.

Very truly yours,



1883-10-31

October 31st.

3

C. E. Speirs, Esq.

care D. Van Nostrand,

23 Murray Street, City.

Dear Sir:-

Will you please let me know per bearer where we can  
find "Archivos of Pharmacie"?

Very truly yours,

1883-11-01

Worcester, Mass.

3

Thomas P. Conant, Esq.

Worcester National Hotel,

Shamokin, Penna.

Dear Sir:-

I send you by this mail a copy of the questions on  
dynamoes and engines and boilers and shall be glad if you will  
occupy your time by contributing to the literature of this estab-  
lishment by answering same.

Very truly yours,

SJ

1883-11-01

November 1st.

3

H. W. Doubleday, Esq.

Edison Exhibit, Southern Exposition,  
Louisville, Ky.

Dear Sir:-

I send you herewith a set of questions on the motor,  
dynamo, engine and boiler. Will you please answer same to the  
best of your ability and them back to us at your convenience.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and cursive, appearing to read 'Edison'.



1883-11-01

November 1st. 3

T. H. Dwyer, Jr., Esq. Trans.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Your favor of the 21st. ulto, came to hand this morning, and the tone of it surprises me extremely. You refer to Mr. Kraess subjecting you to delays as if he was doing so intentionally. Cannot you understand that it is impossible for his men to be of any use in Fall River until he has the <sup>Supplies</sup> ~~tools~~ there ready to lay. We are just as anxious as you are to have the plant installed quickly, but we must protest most decidedly against the frequency and unreasonableness of your complaints..

Allow me to suggest that it is quite premature on your part to ask on the first of November how we propose to get your plant running by the end of November. I would remind you that you were warned before the contract was closed that there would be considerable delay unless your Company guaranteed the cost of the tubes, so as to enable us to order same in anticipation of our closing the contract, and I would further remind you that you promised to send us such a guarantee and that you failed to do so, and any complaint that you now have to make as to the delay should be made to yourself for failing to send us the guarantee above

1583-11-01

2

referred to and not against us.

I fully agree with you <sup>that</sup> the importance of having your tubes completed before frost sets in has been sufficiently explained upon and that a repetition is entirely unnecessary, and I would again beg of you to exercise a little patience, inasmuch as <sup>working</sup> only twenty three days have elapsed since the contract with your Company was closed.

We are unwilling to give any such bond as you ask for. The work will be done in the best manner possible and will be started as soon as possible. The laying could have commenced at least five days ago if the guarantee from you as to the tubes had been sent at the time we asked for it.

To talk of Mr. Kruesi assuming the responsibility of putting off laying the tubes, seems to me an absurdity. It is to my interest and to Mr. Kruesi's interest that the laying should be commenced as early as possible, although my assertions to this effect do not seem to carry any weight with you.

As to none but competent men being employed, I have yet to find that it has been our habit to employ incompetent men, and the troubles that we met with in Lawrence and Brockton are such troubles as we fully expect to meet with at Fall River.. If you

7883-11-01

can tell us how to avoid them I am sure we shall be very glad to  
receive your advise in the matter.

Very truly yours,

Jah

L

A large, stylized handwritten mark, possibly a signature or initials, consisting of a large 'C' or 'G' shape with a horizontal stroke.

1883 71-03

November 27d. 8

W. Doran, Esq.

General Supt. of Construction,  
Western Union Telegraph Co.  
125 Broadway, City.

Dear Sir:-

Mr J. Hibler, of 137 Sherman Avenue, Newark, N. J.,  
has applied to me for a position in connection with the erection  
of electric light lines, and states that he has had thirteen years  
experience as foreman of gangs, and refers me to you for informa-  
tion as to his capabilities. Can you so far oblige me by giving  
me this information?

Very truly yours,

*W. L.*

1883-11-03

November 3rd.

3

D. H. Bates, Esq.

Western Union Telegraph Co.

103 Broadway, City.

Dear Sir:-

Ed J. Hibler, of 137 Sherman Avenue, Newark, N. J., has applied to me for a position in connection with the erection of electric light lines, and states that he has had thirteen years experience as foreman of crews, and refers me to you for information as to his capabilities. Can you so far oblige me by giving me this information?

Very truly yours,

*Wm. L.*

1883-11-03

November 3rd.

3

Richard Vause, Esq.

Natal Mercury,

Durban, Natal.

Dear Sir:-

Referring to your favor of the 17th. September, which has been forwarded to me by the kindness of Sir Charles W. Riley, the Consul General of the Orange Free States, Philadelphia, Penna., I beg to state that possibly my Phonograph might be available for the purpose for which you suggest. It would, however, require considerable improvement before being put to such use, and my time at the present is so fully occupied with other matters that I am afraid that this will have to stand over until I have more leisure at my command.

Yours very truly,

*Thh*

1883. 11. 03

November 3rd. 8

W. S. Andrews, Esq.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr. Galey, the meterman whom I sent on to Lawrence, was at Roselle for some time. He seemed to answer most of the questions very well, but he had not had that experience with our work which would qualify him to such an extent as Conant.

If Mr. Lord should make any remark with relation to him you might say that Mr. Conant will go to Lawrence shortly, as immediately I can get him away from Shamokin I propose to send him to you.

Very truly yours,



1883-11-03

November 3rd. 3

Thomas L. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

I am in receipt of your letter of the 31st. October, and I send you herewith map of the town of Shamokin, and shall be glad if you will trace thereon exactly where the present lines are run, and where the feeders join the mains, also indicate on the map the position of the proposed new line with the position and probable number of maximum lamps at each point marked thereon. We can then have the sizes of wire determined here in the office. Please attend to this right away and we will return the map to you in the course of a day or so.

Very truly yours,

*Yours*  
*J*



1883-11-03

November 3rd, 1883.

W. H. Swolley, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We are in receipt of your letter of November 2nd., and will have the two 330 light dynamos shipped forthwith.

The terms of payment on which we sell to the Isolated Company are cash on the delivery of the machines. Will you please advise us as to how we are to get payment from you?

Very truly yours,

Edison Mach Co

By S. J.

1883-11-03

November 3rd.

3

E. H. Ford, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr Oakley, our motorman, left here the day before yesterday for Lawrence, and I shall therefore be glad if you will kindly comply with your promise to send me a check for \$10,000.

Yours very truly,

24  
I

1883-11-03

November 3rd.

3

Societe Electrique Edison,

33 Ave de l'Opera,

Paris, France.

Dear Sirs:-

I have your favor of the 17th. October, and in reply would beg to enclose you copy of a letter which I have received from Mr Francis R. Upton, the Manager of the Lamp Company.

I would point out to you that no guarantee has ever been <sup>our</sup> given that the life of lamps would be of 1000 hours duration;

I cannot possibly conceive how our lamps should have been subject to such heavy breakage, unless they were run at very high candle power, as the lamps are of precisely the same character as we are now using in this country and we hear no such complaints here.

Any test as to the life of lamps would of course have to be made in a regular manner, with a constant electro-motive force and the lamps run at the volts they are intended for.

Very truly yours,

Jas  
L

Enclosure.

1883-11-05

November 5th. 83

W. L. Dwyer, Jr. Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

In a letter addressed to Major Eaton by Mr. Spencer Gordon of the New England Department of the Edison Electric Light Company the following occurs:-

"Some of our large stockholders are builders by trade and criticize the character of the masonry brickwork that is going into the building. Mr. Dow told me within a few days that one of the best masons in town said he thought it was shameful to put a building together as this is being constructed."

Our Superintendent, Mr. Rich, was here yesterday and we drew his attention to the above, and he informed us that Mr. Jerome Gordon, one of your Building Committee who has taken an active interest in the work, has expressed himself as being perfectly satisfied, and he also stated that there was no reason whatever for the complaint. As we have not received from you officially any complaint as to the character of the central station work, we shall be glad to hear your views on the above remarks of Mr. Spencer Gordon's, as it is our desire that all our work should

1883-11-05

2

meet with the entire approval of your Company.

Very truly yours,

Zag  
I

1883-11-05

November 5th. 3

Paul R. Byer, Esq.

St. Cloud Hotel,

Canton, Ohio.

Dear Sir:-

Will you please inform me at your earliest convenience  
how soon you will be through in Dr. Stuart's territory, as I want  
you to go to New Orleans?

Very truly yours,



1883-11-05

November 5th. 3

C. H. Johnson, Esq.

222 Avenue H, City.

My Dear Sir:-

I had a talk with Mr. Edison last night with relation to the <sup>able</sup> ~~same~~ made for us by the Ansonia Company, and he requested me to see you about getting the same passed on and approved by the Board of Fire Underwriters.

I wish you would speak to him about the matter and take it in hand right away, as our central station business is seriously affected by the doubt existing as to whether the Board will allow us to use the tape.

Yours very truly,

S. J.  
P. S.

1883-11-05

November 5th.

3

W. H. Moore, Esq.

Rahway, N.J.

Dear Sir:-

I regret very much to hear that you are about to sever your connection with the Edison Company for Isolated Lighting, and it affords me very great pleasure to testify to your ability and industry in connection with the various matters that you have had in charge on my behalf.

Your trip to China and Japan on my account to hunt for bamboo or other fibre was highly satisfactory to me, as evidenced by the fact that you found exactly what I required for use in connection with the manufacture of my lamps. I was also very much satisfied with the services you rendered me during your connection with the Edison Machine Works, as purchasing agent, and have every reason to believe that you have given perfect satisfaction to the Edison Company for isolated lighting during your connection with them, but as to this matter, I have no doubt that they will be willing to speak themselves.

Wishing you every success, and again expressing my regret



1853-11-05

2

that you are about to leave our business, I remain,

Very truly yours,

*Jas*

1883-11-05

November 5th.

3

"Manager,"

Western Union Telegraph Office,

432 Broadway, City.

Dear Sir:-

Will you please have an American District Telegraph  
call put in Mr. Edison's apartments at the "Clarendon", 18th. Street  
and 4th. Avenue. If the man you send will ask for Mrs. Edison,  
she will give him instructions as to where the call is to be  
placed.

Yours truly,

A handwritten signature consisting of the letters 'S', 'I', and 'P. S.' in a cursive, stylized script.

1883-11-05

November 5th, 8

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I am very anxious to have Mr. Ayer go to New Orleans at the earliest possible moment, and shall be glad to hear from you as to how soon you can spare him. It is a matter of very great importance to us that he should be despatched this week, and we therefore trust that you will endeavor to make your arrangements to dispense with his services for the present accordingly.

Very truly yours,

*W. L. G.*  
*W. L. G.*

1883-11-05

65 Fifth Ave., New York Nov. 5th. 1883

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

I cabled you the other day as follows, "Peculiar about 130; thickness about par, reputation unsalable, weakful", which according to my code with you you will understand as follows: Edison Electric Light Company stock about 130, Isolated stock about par, European stock unsalable, market generally very weak.

I have been waiting to see whether an advance would take place in the price of our stocks but there does not seem to be much chance of one at the present moment. The depressed state of the general stock market and the great shrinkage in values which has been going on now for months seems to have effected such outside things as Edison Electric Light Stock very much indeed. When the capital was increased to \$1,000,000., some few weeks back, the stock went down about seventy five points, which was of course to be expected owing to the increased capitalization. Isolated stock has greatly fallen until it has got to quite a low point. I had expected that in stead of a decline we should have had a rise in prices, and I based my belief on the improved state of our business, the development of the central station business in small towns and the excellent footing obtained in the first district, but of course the troubles in Wall Street, where every-

1883-11-05

2

thing has been going to the "dogs" for sometime past, besides one's calculations in relation to advance in prices, and under the circumstances I do not know exactly what to do for you, and consequently thought it best to cable you the state of the market.

I wish, on receipt of this, you would wire me in relation to the matter, inasmuch as I leave here for London on the 11th. December, and would not have time to do anything much for you if you wait to write to me. Of course when in London I shall run over to Paris to see you. I am going over primarily for the object of spending Christmas in London with my folks, as it is three years since I came here, and I think my business is in a better shape now than it has been at any previous time and therefore Edison will suffer the least possible inconvenience from my absence.

Now for a few remarks about our business.

Down Town Station. I do not know whether you have heard that the down town district went out one night last week, the lights were out for some two hours. The cause of the failure was given out to be that the safety catches had all melted in consequence of their being large enough to carry only the Summer load, and the man who had charge of the safety catches was made a scapegoat and discharged. Whether this was the exact cause of the trouble or not I do not know at present, but I will doubtless be able to tell you about it in person when I see you. I was away in Cincinnati at the time the trouble occurred, and therefore I am not at all posted as to the cause thereof. As I understand from Johnson

1883-11-05

first one feeder safety catch gave out, which threw the load on the other eleven, then another gave out and so on until there was only one feeder connected, which of course "busted." Sprague is now engaged with Edison down at the Central Station looking into the matter. There is no serious trouble, I do not think, and the district was running again all right two hours after. Although it may seem to you a little "gassing" for me to say so, yet truth compels me to record that the day after the breakdown we had more new applications for light than any day previously. There are now connected up in the First District over 10,000 lamps and our load in the evening is about 3,000, ~~and~~ the average lighting for the whole twenty four hours being about 1,100 to 1,200. Then I come over in December I shall bring with me for your private information figures as to how the station stands. If the showing is very fine I will bring an official statement which you can make use of.

Out of Town Stations. We have now got running Sunbury, Pa. station, 500 lights, Shamokin, Pa. station, 1,600 lights, Brockton, Mass. station, 1,600 lights, Lawrence station 3,200 lights.

Fall River, Mass. station, 1,000 lights will be running about the end of November; Tiffin, Ohio station, 1,000 lights, will be running about Christmas; Newburgh, N.Y., 1,000 lights, will be running about the same time. These stations aggregate about a quarter of a million of dollars of central station contract work.

We have got a number of others coming along, and next Spring we shall undoubtedly do a very large business indeed in this kind of

1883-11-05

work, so you see that our anticipations of large business, when you were here, are about coming true, and I think by next Summer we shall have a great deal more than we can comfortably handle.

Machine Works. Soldan was put in Dean's place at the Machine Works. He has not got that enormous amount of power which Dean had, and I think it is a good thing that he should not have it. The office of the Edison Machine Works is at 65 Fifth Avenue, that is in our office here, and its finances and everything in relation to its business is running very well. We order material from here, and I make arrangements from here with the people we buy from. The Superintendent of the Works builds machines at Goerck Street and takes charge of his men and there his functions end. We had a thorough examination of the books made but there was nothing in them which we could call irregular. The only thing which we could not understand, and which we never as yet have been able to get at the bottom of, and which I do not believe we will ever get at the bottom of, is the enormous prices paid by Dean to his men on contract work. ~~The men who got most of the "boodle"~~ out of those contracts were poor companions of Dean, and they swear that he never got a cent from any contracts that he had with them for this work. It seems incredible that such should be the case, but I do not see any possibility whatever of going behind the statements of the men. I have had private detectives at work, I have threatened and promised and bugleozed but nothing will seem to get out of the men the facts about the case, although I cannot get at the bottom of the matter, I a

2002-11-05  
2002-11-05

confident as ever that Mr. Dean had a large "divy" with his men on contracts. I found that Dean borrowed money right and left, and that everybody that supplied the Machine Works with goods were subject to most abominable blackmail and that Edison was fast getting a very bad name, as Dean gave the impression that Edison was fully aware of his (Dean's) private dealings with the people the Machine Works bought from. I also discovered that Mr. Dean had stolen about \$200. worth of scrap, that is he had had the scrap taken from the Works, sent to a man in Brooklyn and received himself the cash for same. Although it might have been possible to indict Mr. Dean for conspiracy for receiving commissions, we were advised that our case would be a very flimsy one, not that we wanted to bring the matter into court, but we wanted to have something that we could hold over Dean if he got obstinate, but of course when I discovered the stealing of scrap, although it was a comparatively small amount it was quite sufficient for my purpose. On last year's orders, which you may remember was a very large one, Dean had due him about \$8,000., the amount of seven per cent profit of the job which Edison promised him. My policy was to save the Edison Machine Works any such sum, and Mr. Dean's stealing scrap gave me the opportunity. We have now in the safe a release, from Charles J. Dean to T. A. Edison and Charles Batchelor, trading as the Edison Machine Works, which sets the Machine Works free from any claim that Dean may have had, so is a clear saying of \$8,000. after getting rid of him.

COPY 1  
17440



had to deal with Rocap. I do not think that he was guilty of any criminal knowledge of what Dean was doing. I do think, however, that he shut his eyes to certain irregularities which I noticed, and ~~which~~ first led me to make my first inquiries which resulted in my reporting the matter to Edison. Rocap's defence is that Edison stood up for Dean against everybody, and that he (Rocap) reported several matters to Edison at one time which Edison refused to take any notice of. Anyway Rocap had to go. Instead of co-operating with me for the last two and a half years he has persistently and consistently put every obstacle in my way to prevent my getting information at Goerck Street, notwithstanding the fact that when he was engaged, it was perfectly understood that he was to work under my direction, and I think if I had had a little more co-operation at the Machine Works, I might have got to the bottom of the trouble earlier. Mr Rocap also had an unsettled claim against the Machine Works for \$1,400. in connection with ~~some~~ the same deal as Dean, and Rocap started to threaten suit against us for the amount. I had advised Edison and he had agreed to pay Rocap, but as soon as the threat to start suit was made, I got Edison to allow me to take the matter in hand again, and I am now engaged in an effort to delay payment to Rocap and save a possible thousand dollars in settlement. If I succeed it will be due to a smart young lawyer who is handling the business.

Whether Soldan will turn out a good Superintendent or not is very difficult to judge at present. So much of his work this Fall has been of an experimental character, and one can hardly

judge of a man's capabilities to handle work cheaply and quickly in connection with the Machine Works at the present moment.

Anyway he is honest, attends to his business all the time, and he keeps his shop in apparently very good order and everything seems well systematized.

Lamp Company. McLaughlin has sold his five per cent interest in the Lamp Company to Upton for \$12,000.. This would place the Lamp Factory property at a value of about \$250,000. on UPTON'S valuation. Inasmuch as Upton is running the Factory he ought to be better acquainted with this than anyone else, and if he values the property at \$230,000. for the purpose of buying a further interest in it, I should imagine that its real value must be nearer \$300,000. At that present time there is about \$180,000. invested in it, \$100,000. capital and \$80,000. borrowed from Upton. Then you remember that for practically eighteen months or two years it was nothing but outgo all the time and that there was an enormous amount sunk in experimental work, which must be looked upon as so much lost, you cannot but come to the conclusion that the Lamp Factory's business is in a very flourishing state. We are going to put the Lamp Factory into a close corporation with a capital of one hundred shares of \$100. each. This will be done before I go to Europe. Before this is done we shall put experts upon the books and make a thorough examination and balance prior to the business being turned over to a corporation, and I shall hope to bring with me for your information a statement of the Lamp Factory's business, on which you can rely far better than the above

1883-11-05

statement.

Bergmann & Co. Bergmann & Co's balance for the year ending September is now out and they are \$35,000. ahead on the year's business. Of course this is not in cash but in property, as practically all profit of the shops ought to be for sometime to come, owing to lack of working capital. Of this \$35,000. Edison is entitled to one third, which makes \$11,666., and you are entitled to ten per cent out of this one third, which makes \$1,800. You have invested in Bergmann & Co's something over \$4,000.; and if they had ample working capital and a division of the profits had been made at the end of the year, instead of at having been left in the business, you would on your investment of a little over \$4,000. have made \$1,800. cash. As it is of course you simply make on paper, although the property in which the profits have been invested is valuable. I do not know whether Bergmann had done so when you were here, but in addition to the original building, he has bought another lot 25 x 100, which makes the property 125 x 100; and he has built on this small lot a brass foundry and carpenter shop. Bergmann & Co. do all the brass work for the Machine Works and Krüsi, as well as for themselves.

I do not know that I can write you any more just now, in fact if it were not Sunday I would not be able to spend the time in dictating this letter. If you want me to do anything for you or bring anything over, please write me immediately you get this.

As I sail on the "Alaska" December 11th., I shall be in London about December 21st. or 22nd., and shall hope to be in

1883-11-05

Paris about the New Year. I have got to leave Liverpool sometime about January 5th. or 10th., so as to be home before the commencement of February.

Yours very truly,

Written by Samuel Insull  
to.

1893-11-06

November 6th, 3

Major Frank McLaughlin,

Park House,

Newark, N. J.

My Dear Major:-

With relation to your request that I should make an estimate for the erection of an electric light plant to light the Big Bend Tunnel, I beg to state that owing to a sudden rush of business in connection with our central station down town, my time has been so fully occupied since I received the data from you that I have been quite unable to take the matter up. I fear that I shall have to give the greater portion of my time to our central station work for sometime to come yet, and I must therefore ask you to offer my apologies to Dr. Pierce for the delay which will of necessity occur in getting the estimates asked for. The matter is one which I wish to attend to personally, as it is of a special character, otherwise I would turn it over to my engineers for their attention.

Very truly yours,

*Full*

1783-11-07

November 7th.

3

A. E. Beach, Esq.

201 Broadway, City.

Friend Beach:-

Will you please let me know when you think you will  
be able to publish the article on "Storage Batteries" which I sent  
you some time back.

Very truly yours,

*244*  
*3*

1883-11-07

November 7th.

3

George W. Bliss, Esq. Supt.

Chicago, Ills.

Dear Sir:-

We have your letter of the 5th. inst. relative to Mendota, and in reply would say that we consider your idea of allowing the people there to "cool off" a good one.

We have not yet received definite information as to Appleton, although we have been daily expecting it. We also would be interested to know what steps are being taken in regard to Racine.

Very truly yours,

*Jah*

1893 11-07

November 7th.

Mr. J. P. Conant, Esq.

Dear Sir:-

Referring to your wish to be removed from Shamokin, I fully sympathize with you and trust that your teeth will hold out until the troubles at Shamokin are fixed. Immediately everything is running nicely, I will see that you are removed from the land of tough steaks, and if you will only come on here some evening at 6 o'clock, I will take you up to Delmonico's and regale you with such a meal as you have not seen in ages.

Very truly yours,

A handwritten signature, possibly 'S. J.', in dark ink, located below the closing of the letter.



1883-11-07

Nov. 7th.

Dr. T. P. Conant,

Dear Sir:-

I have your favor of the 4th. inst.  
and in consequence of the receipt thereof have decided to send  
Anderson & Sims' men on to Chamokin immediately. I enclose  
per letter from Dr. Dooty which I shall be glad if you will re-  
turn to me with such explanation of the troubles as your previous  
correspondence may not have contained.

Very truly yours,

Jain  
J

1883-11-07

November 7th.

3

Joseph Williams, Esq.

San Jose, Cal.

Dear Sir:-

In replying to your letter of the 20th. inst., in which you ask if a telephone could be operated onna railway train, I beg to say that it is possible, especially if the instrument used is a string telephone.

Very truly yours,

Sam<sup>y</sup>

1883-11-07

Nov. 7th.

F. R. Upton, Esq.

East Newark, N. J.

Dear Sir:-

We have complaints from the Sunbury company about the  
areing of their lamps.

Very truly yours,

*Yak*  
J

1883-11-07

November 7th.

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

I am in receipt of your telegram of the 1th. inst. asking why definite work has not been begun as promised, such delays are ruinous. You must really leave to me to decide when I shall send a man to a certain town to start the work locally. Immediately a contract is signed that warrant the work continues although it may not be visible in the town where the plant is to be installed. We have quite an amount of machinery, wire &c. to get out before it is possible to do much work locally. This has been proceeding and I do not think you have any cause for complaint as to delay at Tiffin. As matter of fact our Supt., Mr. Fich, left Fall River Monday night for Tiffin, and signs of work will be visible there in a few days.

Very truly yours,

*Fah*  
J

1883-11-07

November 7th.

William J. Ward, Esq.

Brown's Hotel

33 Fulton street,

Brooklyn, N. Y.

Dear Sir:-

I have your letter of November 7th. If you will  
apply to Messrs Hermann & Co., 222 Ave. B., they will let you  
test your meter there if you show them this letter. They have  
constant current and will I feel sure give you the facilities you  
desire.

Very truly yours,

J. A. J.

1783-11-07

November 7th, 3

Samuel Inzull, Esq.

Boston, Mass.

Dear Sir:-

In relation to Lawrence, I beg to say that in accordance with our Order No.1, as per the items on the attached statement marked "C", the Illuminating Company is indebted to us to the extent of \$6,734. In accordance with item "b", which I believe was accepted by Mr. Lord, it being the same that you made to him from Brockton, they owe us \$1,200.20. Item "B" is for the extension of the mains on the North side of Essex Street, and is the amount in connection with which we had the correspondence with Mr. Lord, and he did not appear desirous of accepting our figures for this work, stating that their contract with Mr. Edison covered the full system to be ordered as they wished. Item "D" is for laying mains to the City Hall, which was not included in our contract, and amounts to \$108.14. The amount of the bill which I attach is for house services, tools &c., as per details shown, and amounts to \$1,242.05, and these amounts aggregate \$12,608.83. The full amount of our contract with the Edison Electric Illuminating Company of Lawrence for street installation is \$10,840. You will notice that in Order No.1 the amount for street installation is

1953-11-07

2

\$6,734., which is item "c" on the attached statement, and this deducted from the full amount allowed in the estimate for street installation leaves a margin of \$1,112., which was to be devoted to completing the system in accordance with our exhibits sent with the estimate, but inasmuch as they have ordered more work than we agreed in the first place to do and they have exceeded that amount considerably. I have deducted from the statement \$100. for a meter balance which we agreed to supply in Order No.1, and which was charged into the Lawrence Illuminating account erroneously.

You can make any other deductions you see fit, but as I do not know the amount you would wish to deduct for office furniture, inasmuch as we specified none in our estimate and I consider it better to leave this for you. You will see that the amount which the Lawrence Company owes us is \$1,002.83 and over and above our contract with them.

Very truly yours,

ad

1883-11-07

November 7th. 3

Samuel Insull, Esq.

Boston, Mass.

My Dear Insull:-

In regard to our Lawrence affairs I am sending you two bills. One is itemized and shows the actual cost to us for the material supplied by Kruesi for house services, &c. and the other is the regulation bill with twelve per cent added, which latter I presume you will use for collection. I regret very much to say that I have hunted everywhere to obtain a copy of the Exhibit which accompanied the estimate we sent to the Lawrence Company amounting to \$32,572, but have utterly failed to obtain one, nor can I find anywhere the letter which I am still under the impression you wrote designating the course of the mains.

I am very sorry to have to write you this, but it is simply impossible for me to discover where this data is, and you will now have to obtain the Exhibit from Mr. Lord. The course of the mains as specified in our Order No. 1 is in accordance with Item "C" on the Statement which I have attached. I cannot even find Kruesi's bid for the street installation in accordance with the item (you will understand when I say estimate I mean the full Order which includes Order No. 1).



1883-11-07

2

In relation to Brockton accounts, I have also enclosed two bills, one itemized for your own information and the other with the twelve per cent added.

I trust that you will recognize the fact that this data is as complete as I can make it, and at the moment of writing this I am in the same humor as you will be at the moment of reading it.

I enclose the Lawrence contract which you may possibly want in settling up affairs there.

Yours very truly,

*Arley*

1883-11-07

November 7th. 3

K. H. Lord, Esq. Trans.

Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your favor of yesterday's date enclosing check for \$10,000. on account of our contract for the installation of central station plant at Lawrence.

Yours very truly,

Zac

1888-11-07

Nov. 7th.

Mr. H. Ward Leonard,  
Brockton, Mass.

Dear Sir:-

I have yours of the 4th. and must request you to stay  
at Brockton for the present and not to come to New York before  
going to Baltimore until you have advices either from this office  
or from Mr. Insull who will be East during the next few days.  
You are mistaken if you think we want you to go to Cooper street  
to experiment. We desire you to stay at such station as you are  
sent to until we request you to go elsewhere.

Very truly yours,

Jae  
J

1853-11-07

Nov. 7th.

Mr. Frank S. Barr,

Sunbury, Pa.

Dear Sir:-

I have your favor of the 3rd. of November. With relation to the charge for 33 candle lamps, I would beg to say that the average lighting time for the 305 days in the year is at 9 o'clock in the evening. Hotels want the light until 2 A. M. This makes 8 hours at 1 <sup>1</sup>/<sub>4</sub> cents per ten candles per hour. The amount would be 3 <sup>3</sup>/<sub>4</sub> cents per hour or 30 cents for the 8 hours. This would give you about \$110 for the 305 days of the year. If you charge \$30 per year it would be at the rate of about 1 <sup>1</sup>/<sub>10</sub> per thousand feet of coal gas. You might make a contract at this rate only by the month with the privilege of stopping when you get loaded up and have an opportunity of taking better consumers. I agree with you that the extension of your mains should take place before the cold weather comes. If you will please have your meter man mark upon the charts sent herewith exactly where the present mains run and where the feeders run and also mark on the chart where you propose running your new mains, I will have calculations made and let you know exactly what size of copper wire should be run for the extended circuit. I cannot understand why your lamps are so.

Very truly yours,

*Thos J*

1883-11-08

November 6th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Replying to your letter of the 6th, inst. in reference to arc lights, we beg to say that we have an arc light ~~as~~ that can be worked on our circuit, but not nearly so economically or satisfactorily as incandescent lights of large power. Our large power lamps are getting to be excellent in life and economy.

We have a new wire and all devices requisite for using it and we hope in a few days to be in receipt of authority from the Board of Fire Underwriters to use it. If we fail to obtain this, which is hardly likely, we should do wiring in the old manner.

In relation to Cynthiana and Maysville estimates, we are pushing them through with all possible speed, and will make them as low as we can.

Our Superintendent, Mr. Rich, is at the present moment iniffin, and will see that everything is done to advance work there.

Very truly yours,

*W. H. C.*  
*J.*

1883-11-08

November 8th. 3

Charles S. M. Small, Esq., Pres.

N. Y. Electrical Society,

Room 40, W. U. Building, City.

Dear Sir:-

Replying to your letter of the 5th. inst., I beg to say that it would give me great pleasure to comply with your request and deliver a lecture for the benefit of the Members of your Society were I possessed of the powers of oratory requisite for such an occasion. The fact of the matter is I never delivered a lecture in my life. You of course understand that there is a very great difference between talking and inventing, and though I have made rather a success of the latter the former is an accomplishment which I do not possess, and I must therefore ask you to very kindly accept my regrets together with my best wishes for the well-being of your Society.

Very truly yours,

*July*

1583-11-08

November 8th. 3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

Herewith we beg to enclose our estimate No. 30 for the erection of an Edison Electric Light Central Station Plant at Keenah, Wis. of 500 lights capacity and amounting to \$7,660., together with map "A" referred to in the estimate, showing the course of our proposed street installation, which takes in 600 lights. The estimate is based upon the assumption that the local Company provide the building, power and all necessary shafting, pulleys, hangers, bolting &c. to and including jack shaft, requisite for the proper and efficient operation of their station.

In regard to our bid for street installation, this is based upon the assumption that all permits and concessions necessary to be obtained from city authorities or private parties shall be procured by the local Company, to enable us to erect poles and run our wires in accordance with the red and white lines on Exhibit "A". Should they fail to obtain any of these and thereby cause us any additional expense, it is understood and agreed that they shall reimburse us to the extent of the excess. You will observe that the cost per lamp of this installation, as far as we are

concerned, is \$13.77. As it only remains for the local company to erect their building, which need only be a small one, the installation is going to be a particularly cheap one, and we think our part of it will be found satisfactory in all respects.

If you come to any definite understanding with these people which would necessitate formal agreement, we shall be glad to send them.

Very truly yours,

*Jan*  
5



1813-11-08

November 6th, 8

Spencer Gordon, Esq.

Boston, Mass.

Dear Sir:-

We enclose herewith our estimate No. 34 for the erection of an Edison Electric Light Central Station Plant at Natick, Mass. of 1,000 lamps capacity and amounting to \$23,234.36, and under separate cover we send you our Exhibit "A", showing the course of our proposed street installation, together with plan of proposed central station. You will notice that the cost per lamp of this estimate is \$23.23, which, for an underground system, we consider very reasonable. The Newburgh installation, which we have just closed, came to about the same figure.

We also enclose you our estimate No. 35 for the erection of an Edison Electric Light Central Station Plant at Norwich, Conn. of 1,000 lights capacity, and under separate cover we send you our Exhibit "A" referred to in the estimate, showing the course of our street installation, together with plan of central station, the details of which are the same as the Natick station. This estimate amounts to \$23,370. or \$23.37 per lamp, which is about 43 cents per lamp in excess of the Natick estimate. This excess is accounted for by the fact that our proposed street installation in Norwich will accommodate 1,210 lights, whereas the street installa-

tion in Matiel takes in but 1,000. We will send you whenever necessary forms of agreement for closing either or both of these contracts, but if anything is to be done in the matter this Fall, immediate steps must be taken, as in a very short time we will have frost to contend with which would of course put an end to everything in connection with dimming up streets for the purpose of paying our mains.. If the Matiel or Norwich people wish to do that business we consider these estimates give results which must be perfectly satisfactory. They will of course understand that by delaying the matter until Spring they will lose a great deal of money by not being able to take advantage of that season of the year when the average burning of light is the longest.

We shall be glad to hear from you as early as possible what steps are being taken to effect a settlement, and in the meantime we beg to remain,

Very truly yours,

*John*  
9

153-11-08

November 8th. 3

M. C. Polknap, Esq. Secretary,  
Edison Electric Illuminating Co.  
Newburgh, N. Y.

Dear Sir:-

We have the pleasure to enclose you herewith revised plan of the Newburgh central station showing all the details necessary for your contractor to have. We trust that the details of it will be accurately carried out, as any deviation would greatly interfere with our arrangements.

Our Superintendent will visit Newburgh shortly to see how you are getting along.

Very truly yours,

*Wm. J.*

1883-11-08

November 11th. 3

W. Burrows, Esq.,

Room 1st,

40 Broadway, City.

Dear Sir:-

Will you kindly let us know the ~~extra~~ third class rates to Menah, Wis. and Danbury, Conn. We require these rates for estimating purposes and it will be necessary for you to quote from the tariff at the present time in force. When we come to ship material we will supply you with the forms you suggested properly filled out, in order that you may obtain special quotations for us on our material.

Very truly yours,

744  
7

1883-11-08

November 8th.

3

Messrs. Harris & Robinson,

Hartford, Conn.

Dear Sirs:-

We have the pleasure to enclose you herewith our estimate No. 31 for the erection of an Edison Electric Light Central Station Plant at Danbury, Conn. of 1,000 lights capacity and amounting to \$25,014.50. On account of having to prepare this estimate under great pressure, in order to keep our promise to you to mail it to-night, it was impossible for us to send a man to Danbury for the purpose of inspecting the streets, preparatory to making a bid for the street installation. On this account the amount which we have estimated for same is subject to revision. Mr. Kruesi, of the Electric Tube Company, will go to Danbury this week, if possible, and certainly not later than Monday, and obtain such data as he may require to enable him to submit a fresh estimate for the street installation, and we will immediately advise you of the result. You will notice that as the figures stand now the cost per lamp is \$25.91, but this is accounted for by the lighting of the district being very much scattered and necessitating long mains and feeders. In Newburgh, N.Y., where we have just closed a contract and commenced work, the cost per lamp was about

1893-11-08

2

\$223., but the district was much more compact than Danbury and the feeder much shorter. You will see that the comparison between the two estimates would be very favorable, and the seemingly high average per lamp of the Danbury proposed installation is very satisfactorily accounted for by the larger amount of copper which it is necessary to use and the greater amount of excavation required to lay the mains, also the fact that these mains are laid to accommodate 1,271 lights.

Under separate cover we send you map "A" referred to in the estimate, showing the course of our proposed street installation, and if you come to any definite arrangement with the Danbury Company, we will forward you forms of agreement. Under same cover we send you plan of our proposed central station, showing the general arrangement of its interior.

Trusting that these will meet your requirements, we are,

Very truly yours,

*Far*  
3

1883-11-08

November 8th. 1883

H. Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your letter of the 7th. inst., we beg to say  
that we consider it would be advisable for you to purchase the  
Photomotor you mention.

Yours truly,

*Tae*

1883-11-08

November 8th.

3

Hall Engine Co.

Erie, Penna.

Dear Sir:-

Replying to your letter of the 6th. inst., we beg to say that we understand that there is some question about patents existing between your Company and the Armington & Sims Company. We are not bound by this latter Company in any way, and we use their engines because they have given better results in our business than any other engine we have ever tried. In the matter of countershafting, we never, under any circumstances, make use of it, as we consider it to be an impediment to the proper and satisfactory working of our stations..

Have you any opinion of experts that your engine is patent free, if so would you be kind enough to let me see it?

Very truly yours,

*Sal*  
*y*



1883-11-09

November 6th. 3

P. R. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We have your letter of the 5th. inst. in reference to the breakage of lamps at Sunbury, and in reply beg to say that we have sent an expert from the Lamp Factory who will ascertain the cause of the trouble.

We have to-day written Mr. McCormick very fully on the subject, and trust in a short time to eradicate the difficulty.

Very truly yours,

*J. M. J.*

1883-11-09

Mt. Carmel

November 8th. 8

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

We beg to enclose herewith our estimate No. 73 for the erection of an Edison Electric light Central Station Plant at Mt. Carmel, Penna. of 500 lights capacity, and amounting to \$14,500. and under same cover we send you map "A" referred to in the estimate, together with plan of proposed central station. This installation, as you will see, comes to \$29.12 per lamp, which considering that the street installation covers nearly 200 more lights than the nominal capacity of the plant and that the installation is a very small one (in which cases the cost per lamp always runs up high) is a very fair estimate. The central station to-night have been located at a better point, but as you understand the Mt. Carmel people purchased the lot for this purpose without consulting us in the matter. The Sunbury installation, we might mention, came to about the same figure, and we feel sure that when you explain to the Mt. Carmel gentlemen about the cost per lamp running up very high in such <sup>small sized</sup> ~~small size~~ plants, they will understand the case and fall in with our ideas that the estimate is a good one. There is one thing that we wish to impress upon you and upon the gentlemen interested at Mt. Carmel as forcibly as is

1893-11-09

possible for us to do it, and that is, that there must not be a days delay in giving us the order for this installation, if they desire it to be put in this Fall. In a very short time we will have frost to contend with which would put an end to all work in connection with excavating for our pole line and foundations. The M. Carmel Company will of course understand that by delaying this matter until Spring they will lose a great deal of money by not being in a position to take advantage of that season of the year when the average burning of xxx light is the longest.

We will send you to-morrow forms of agreement filled out and executed as far as we are concerned, and if we get this order at once, we will commence work right away.

Trusting you will recognize the necessity of a very prompt reply, we are,

Very truly yours,

*Mc*

Enclosure.

1883-11-09

November 9th. 3

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition,

Louisville, Ky.

Dear Sir:-

We enclose herewith our check No. 248 for \$75., and wish you would be good enough to return to New York at once. Please wire us when you leave Louisville, which we trust will be on Monday the 12th. inst.

Very truly yours,

Jae  
J

Enclosure.

1893-11-29

November 29th.

Frank H. McCormick, Esq. Pres.

Edison Electric Illg. Co. of Sunbury,  
Williamsport, Penna.

Dear Sir:-

We have your letter of the 5th. inst. in reference to the breakage of lamps at Sunbury, and in reply beg to say that we have sent an expert from the Lamp Factory to Sunbury, who will very soon ascertain the cause. We strongly suspect that your local man has cut some customers in by running the service from the feeder instead of the main. What you should have done was to have ascertained at what particular place the breakage occurred, after which the cause of such breakage could be very readily obtained. The same lamps as you are using are in service at Shamokin, Brockton and Roselle and give 800 hours. The Lamp Factory's guarantee is that if run at ten candle power, they will last 800 hours, and we know from experience, which is the best evidence that we could possibly have, that these lamps are capable of bearing out the guarantee. We regret that Mr. Harr should have been so incensed on account of the letter we wrote you, as Mr. Conant simply quoted the statements made by the engineer at Sunbury. The Lamp Factory expert will, however, find out the cause of the excessive breakage.

ALLEN H. AG. COLLECTOR, RBD. FLOOR.

2

of lamps in Sunbury and adjust the matter so that there will be  
no further trouble.

Very truly yours,

*Jan*  
*9*

1853. 1109

November 8th. 3

J. F. Hunn, Esq. Vice President,  
Tiffin Edison Electric Ill. Co.  
Tiffin, Ohio.

Dear Sir:-

We have your letter of the 3rd. inst. asking us to name a date when the Tiffin installation will be ready to supply light. In reply to that query we would say that the work on the station has already been commenced there and that its completion will not take more than twenty or twenty five days. The wire for the pole lines will be in Tiffin in about ten days, and this work can proceed in unison with the work on the station, and should be completed about the same time. We do not like to state positively that we will have the plant running by a certain time, but we want you to feel assured that ~~xxxxxxxx~~ we will do everything in our power to meet your wishes and have it running about the 15th. December.

In relation to lighting the public garden you speak of, as far as we can tell from the incomplete information given in your letter, this appears to be in Block 40. We are to submit a proposal to Mr. Stuart for lighting this block, together with some other blocks, and when that has been received it will give you the

1983-11-09

2

information you desire on that point. We trust you will understand that it is our desire to meet your wishes in this case and that the reason that we do not promise absolutely to start on the 10th. December is that there are so many points to be taken into consideration in making a promise of that kind that we consider it better for ourselves and for you to place the matter in the light we have, notwithstanding the fact that we feel reasonably sure of being able to meet your wishes.

Very truly yours,

*Zak*  
*J*



1883-11-11

Sunday,

November 11th. 3

W. S. Hastings, Esq.

15 West 50th. Street, City.

My Dear Mr. Hastings:-

I have been receiving since last Wednesday very pressing telegrams from Messrs. Harris & Robinson asking me to attend a meeting at Southington to-morrow (Monday), and I have repeatedly telegraphed them that it is simply impossible for me to do so, and yet they persist in wiring me to attend the meeting. Now after I get there I do not see what good I can do, inasmuch as the license contract with the Light Company has not been closed yet. Harris & Robinson say that the most important stockholder leaves Southington for the South on Tuesday morning, and I think it is more a matter of the light Company's <sup>business</sup> than the Construction Department's for the present, as I am positive, from my experience elsewhere, that after I go there there will be a lot of useless talk, and I will have to go later on to get my contract closed. I have besides very important business to-morrow, having been out of the office the whole of last week, and I write to ask if you can go to Southington on the eight o'clock train to-morrow morning. If so, I would like to see you before you go, and I will come up to your house or I will meet you here anytime up to

1883-11-11

2

three o'clock this afternoon, after which hour I do not know where  
I shall be.

Will you please let me hear from you by bearer.

Yours very truly,

Sp

1883-11-12

November 12th. 3

Paul D. Dyer, Esq.

Warner House,

Chillicothe, Ohio.

Dear Sir:-

I have your various letters from Canton. I am very anxious to have you go to New Orleans as soon as possible, and I want you to hurry through on Mr Stuart's work. You must finish with him by Saturday next at the latest.

Very truly yours,



1873-11-12

November 18th.

3

J. G. Oliver, Esq.

Toronto, Canada.

Dear Sir:-

Referring to your favor of the 6th. inst., I beg to inform you that my experiments are in the main confined to incandescent electric lamps, and the substance you mention for carbon points for arc lamps will therefore be of no use to me.

Very truly yours,

Zag  
I

1883-11-12

November 12th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Your letter of the 11th. inst. came duly to hand.

We are delighted that you should recognize the fact that it is quite true that we cannot supply estimates unless we have the data whereon to work. Tiffin work was started immediately the writer got back to New York. Do you not know that there are several things to be done in connection with material before we can have men on the ground actually at work in the town itself.

We are pushing Maysville and Cynthiana estimates as quickly as possible, but I must remind you that we have a few towns outside of your territory that we have to estimate on.

That despatch about Mr. Edison going to Louisville was received during the writers absence from town. That lets the Private Secretary out, but it was answered just as soon as Mr. Edison could be got out at by the Private Secretary's assistant. If you did not get the reply you must blame the Western Union Telegraph Company and not us. I doubt very much whether Mr. Edison will go to Louisville at all. It is probable, however, that Major Eaton will go South sometime within the next week or so.

1883-11-12

November 12th. 3

Why don't you give us some more contracts, which is after all the main encouragement to us to keep plodding away at estimates. One little contract of \$18,000., which required a week of the writers time to get executed, and a trip of something like 650 miles, is hardly sufficient to justify the heavy investment we are making in canvassing, estimating and such like on your behalf. Where are those other two contracts that you said we should have within a few days of my leaving Cincinnati?

Very truly yours,

SS  
P.S.

1883-11-12

November 12th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Referring to your letter of the 7th. inst., it is very important that Mr. Dyer should leave your territory by Saturday next. We really think that you have enough canvasses to get along with. We have kept him in your district so long, to the prejudice of our business elsewhere, that we feel compelled to insist upon his leaving you by Saturday next at the latest.

Hoping that this will not cause you any great inconvenience, we remain,

Very truly yours,

Jas  
I

November 14th. 3.

Straight Line Engine Co.

Goddos & Fayette Sts.,

Syracuse, N.Y.

Dear Sirs:-

We beg to acknowledge with thanks receipt of your favor of the 10th. inst. in relation to royalties on your engines, and will await the communication you propose sending us.

Yours truly,

Jac  
I



1883-11-13

November 13th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 8th. inst., asking us to send you an estimate for Piqua, with the central station located on the Farrington lot. The map which you mention in your letter came to hand a few minutes ago, and it has therefore been impossible for us to comply with your request to wire the figures "on Monday". Inasmuch as you want us to do very close figuring on this estimate, we wish you would <sup>have</sup> the attached form filled in by some reliable person as accurately as possible, as to prices in Piqua. We shall be glad to have this returned at the earliest possible moment, as we can give you no figures whatever until it is received by us. You also omitted to send us the size of the lot mentioned in the foregoing part of this letter. Of course we could have guessed at this size, but that is not always a safe thing to do. Please send us full particulars about this new lot in accordance with the form attached.

Yours truly,

*Wm. J.*

1883-11-13

November 13th. 5

W. J. Jones, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Replying to your letter of the 12th. inst. in regard to books and stationery covered by the amount of \$30. in the Brockton estimate, we beg to say that it was our intention to supply a full set of books, together with special forms which we considered necessary for the running of your business. Some of these books are now being prepared by the printer, but it is our intention to make an allowance on this item and charge you only for what we supply..

Yours truly,

*SJ*  
*P.S.*

1883-11-13

November 13th. 1883

Frank S. Farr, Esq. Trans.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 11th. inst., and in reply would say that you can order cleats from Messrs. Bergmann & Co., 292 Avenue B, City.

<sup>cleats</sup>  
You ask for vulcanized fibre cleats and brads to go with them. The cable can be obtained through us or by applying direct to the Ansonia Brass & Copper Co., 19 Cliff Street, City.

In regard to the breakage of lamps, it is very strange that your meterman has not sense enough to see that his indicator is too high on one side and too low on the other. It requires but a small amount of judgement to make a comparison between the brightness of the lamps on the two sides. He should regulate these sides evenly and reset his indicator. Your breakage of lamps should be about fourteen a week.

Yours truly,

J. A. L.

J

1883-11-13

November 18th.

3

Col. C. E. Gouraud,

74 Madison Avenue, City.

My Dear Colonel:-

I have gone thoroughly into the matter of the division of the Edison-Gower-Bell Telephone shares coming to the Edison interests and I do not see how I can do better than to offer a division of them on a basis of four-tenths to go to you for the countries you put in and six-tenths to go to the Edison Telephone Company of Europe here; you taking your proportion of the six-tenths, which you are entitled to under your arrangement with the New York Edison Company.

If you will write me a note accepting the division as above stated, I will have the papers fixed up and mailed to you by Thursday's steamer without fail. I think that they should be put in a little more formal shape than that indicated in the former letter already agreed upon between you and myself. I am very sorry that the matter should have been put off so long, but it was quite unavoidable.

Hoping that you will have a pleasant trip home, believe me,  
very truly yours,

209

1883-11-13

November 18th. 3

John Decker, Esq.

Lewisburg, Union Co., Penna.

Dear Sir:-

In reply to the query contained in your letter of the 5th. inst. as to whether it would be possible to collect atmospheric electricity on conducting wires, in order to obtain light, I beg to say that the process is possible but highly impracticable.

Yours truly,

John  
I

1883-11-13

November 13th. 3

O. W. Wilber, Esq.

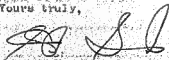
Corner 4th. & Rodman Sts.

Fall River, Mass.

Dear Sir:-

Please report at the earliest possible moment to this office and be prepared to take a journey South. We want you just as soon as you can get here, and we shall be glad if you will wire us on receipt of this when we may expect to see you.

Yours truly,

A handwritten signature in dark ink, appearing to be 'S. L.' or similar, written in a cursive style.

1883-11-13

November 12th. 3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

We have your letter of the 9th. inst. in reference to Appleton and Racine. In relation to the former, we trust that the information necessary for us to have, in order that we may prepare an estimate, will come to hand soon. We are glad to see you state that the Racine estimate was satisfactory.

Herewith we beg to enclose you two copies of the form of agreement which is entered into by the local company with this Department. We presume you have copies of the licensee contract which the Parent Company uses in extending privileges to the local company. If you have not these latter copies Mr. Hastings will supply them.

Yours truly,

*J. H. Hastings*

Enclosure.

1883-11-14

Personal.

November 14th.

3

George Worthington, Esq.

23 Park Row, City.

Friend Worthington:-

You are "barking up the wrong tree". Why did you not come and ask Mr. Edison if he was the originator of the "Times" article before charging him in your paper with the "crime". You know him well enough and can easily get at him, and therefore it would certainly have been a little more courteous if you had applied to him for information before allowing the article in your issue of the 8th. to be put in print. As you state "fair play is a jewel" and I might add that it is hardly fair play to judge a man guilty in advance. As a matter of fact Mr. Edison had nothing whatever to do with the article in question.

I write this for your personal information and not for publication.

Yours very truly,

SD



1883-11-14

November 14th. 3

W. L. Garrison, Esq.

137 Federal Street,

Boston, Mass.

My Dear Sir:-

On my return to New York I spoke to Mr Edison with relation to the wiring. We are, at this writing, doing our best to get the cable accepted by the Board of Fire Underwriters.

They have appointed a Committee to look into the matter, and Major Eaton and Mr Edison are going to draw up a statement setting forth the advantages to us of using the cable, and immediately that is got out I understand that the Committee above referred to are to come here and tests are to be made with the cable to prove its adaptability to the purposes for which it is designed, and also to prove its safety when used instead of the ordinary two wires.

We all recognize that the question of cheapening the wiring is about the most important matter at present under consideration, and you may rely upon every possible effort being made to give you something acceptable to the fire insurance people, and cheaper than the material now used for house wiring purposes.

Very truly yours,



1883-11-14

November 14th. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I have the pleasure to enclose you herewith a small order for copper wire for use at Mt. Carmel, Penna. I also enclose you copy of our contract with the Edison Electric Illuminating Company of Mt. Carmel. The parties in interest are good substantial people, and in fact every way satisfactory to us. We have undertaken to start our plant by the 15th. December, and you will therefore please hurry this wire as much as possible. It should be shipped from your Works at the latest ten days from date.

It is impossible for me to get down town to-day, and if you can have the necessary papers prepared and returned by bearer, I will execute them and send them right back to you. I shall be glad if you can let me know whether you can ship the copper in the time above specified.

Yours very truly,

Enclosure.

1893-11-14

November 14th. 3

W. H. Dwyer, Jr. Esq. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 12th. inst., I am of the impression that you will have to use the old method of wiring until we get permission from the Board of Fire Underwriters to use the new cable. They have the matter under consideration, but it is pretty difficult to force them to deal with it quickly.

I should therefore think it advisable not to mention to your probable customers that we have a cheaper method of wiring under way.

Very truly yours,

Jah  
I

1883-11-14

*Dynamos*

November 14th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Your letter of the 30th. inst. came to hand this morning.

I do not see why we should keep up our prices on lamps if it is going to ruin our lamp sales in Europe, and I shall therefore be very careful what I say in reply to Fargos letter, which you say is to come here. Anyway I should by no means be disposed to accede to his request, considering that he is bidding for the English Lamp trade as against us.

*Link* relation to the 100 light dynamo we sent to Berlin, we have not up to this writing made any single corn machines.

We propose to do so at some future time, but now it will interfere with the manufacture of the German dynamo I cannot see. Our policy is, when we design and build a machine, to be very careful to sell all machines of a given design before we bring out anything better. By this means we have ourselves being "stuck" with a lot of obsolete machines. We have sold in this country all the old forms of dynamos and our new types are now coming out.

and we are none the worse off financially for having brought out such new designs. It would be ridiculous, as you well know, to suppose that we could build a machine and say that there will never be any alteration. Your Ivory friends do not seem to understand this matter. Do they think that simply because we are going to turn the 100 light machine into a single magnet machine, that we propose throwing <sup>away</sup> ~~all~~ <sup>now in stock</sup> those that we have built with the double magnet? At this writing we have about fifteen double magnet machines of the 100 light type at Coercal Street, and they will all be sold before we make any single magnet machines. We follow this policy out right through our business. The first "H" machines that were made would run only 350 lights and were of the long magnet type. We built about twenty of them. Then we got out the improved "H", on which we can run 450 lights with ease. The whole of the former were sold with the exception of two, and these two we have just managed to dispose of without any sacrifice whatever, and at the same price at which we sold the improved "H", to a very obliging customer who wants 700 lights and nothing more, although he can get 800 for the same figure.

I am delighted to hear that you propose returning, and the sooner you do so the better. The prospects are that we shall

plenty of work and very few of us to do it.

Yours very truly,

Zak  
J.

1893-11-14

*Sunbury*

November 14th, 8

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We closed this morning a contract for the installation of a plant, which is practically the duplicate of Sunbury, at

Mt. Carmel. We have got to start the plant about the 17th. of

December, which you will notice gives us little more than a month to do the work in. It is highly important that you should make a

trip to Mt. Carmel at the earliest possible moment. If you will

please advise me by wire to-morrow when you can go there, I will

meet you here at the office at any time when you may indicate when

you go through New York on your way. It is necessary that I

should have a talk with you before you go to Mt. Carmel, and it is

also necessary that you should go there at the earliest date com-

patible with your arrangements for the pushing of the work at

Fall River.

I enclose you herewith check for \$500. as requested in your note left here yesterday.

Very truly yours,

*S. J.*

15x3-11-14

November 14th. 3

Charles Batchelor, Esq.  
Paris, France.

My Dear Batchelor:-

I got your letter of the 30th. inst. this morning, and was very much pleased to hear that you will soon be free and propose coming back here, but I am very sorry to say that I do not know exactly what to do with relation to stock matters for you. My long letter to you of about a week ago will have explained the situation thoroughly. I ought to have posted you earlier, but you know how we are situated here and that must be my ~~apology~~ <sup>Apology</sup>. I arranged with Edison this morning to cable to you asking if \$1,000. would be of any service to you, and if so, to draw on him at three days sight for same.

I hope that you will not leave la Belle France before I get over to see you. Why cannot you arrange to come back on the "Oregon" about the 15th. January? That is the time that I propose returning from my trip to England.

Yours very truly,

S. J.



November 14th. 3

W. S. Andrews, Esq.

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Mr. Doubleday has returned to town from Louisville, and I propose sending him to you on Friday night. Is he to go to Lawrence or Fall River? If the station at Fall River will not be ready for you to start in there, I want Mr. Doubleday to spend the time between now and when it will be ready, in Lawrence, so that you can further post him on our work, as I arranged with you when I saw you last.

Please let me have a reply by Friday morning's mail without fail.

Very truly yours,



1873-11-14

November 14th. 8

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to Order No. sent herewith, I beg to state that it is absolutely essential that you should ship the engine to St. Carmel inside of fourteen days. This is the longest possible time that we can give you, and therefore will rely upon your not disappointing us in the matter, as we have undertaken to start our plant about the 15th. December.

Very truly yours,

Enclosure.

1853-11-14

November 14th. 3

P. B. Shaw, Esq.

Post Office,

Hazleton, Penna.

Dear Sir:-

We beg to enclose you herewith our estimate No. 72 for  
the erection of an Edison Electric Light Central Station Plant at  
Hazleton, Penna., amounting to \$20,084.41, and with <sup>conductors for</sup> ~~a capacity~~ of  
1,219 lights, which we hope will reach you in time.

Very truly yours,

*Jak*  
*J*

1813-11-14

November 11th. 8

Messrs. Morris, Tasker & Co.,

15 Gold Street, City.

Dear Sirs:-

We enclose you herewith our order No.      for steam piping to be shipped to Mt. Carmel, Penna. As this order is very small we trust that you will be able to fill it for us immediately. We require to use this steam piping in connection with a time contract that we have taken, and you will therefore very much oblige us if you can state positively the date that you can ship the piping and fittings from Philadelphia.

Very truly yours,

Enclosure.

1883-11-14

November 14th. 3

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have arranged with the Isolated Company to buy one of their large engines now at Louisville to go to Tiffin, and have ordered them to ship it to W. D. Rich, care Edison Electric Illuminating Company, Tiffin, Ohio. Will you please make the necessary arrangements to have it received there. I presume it will be shipped inside of a week.

Very truly yours,



1883. 11- 15

Shamokin

November 15th. 3

Thomas P. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

I duly received your favor enclosing statement of the  
receipts for the first fifteen days record at Shamokin.

Will you please let me have a statement of the running  
expenses of the station for the same period.

Very truly yours,

*Wm*

*l*

1883-11-15

Patents

November 15, 1883 3

Deutsche Edison Gesellschaft,  
Berlin, Germany.

Dear Sirs:-

Referring to our cables confirmed elsewhere, the statement that the Sawyer-Mann people have beaten me in a patent suit is entirely untrue. Your Patent Attorney will explain to you that the procedure in the American Patent Office is that if two applicants cover the same point in their application for a patent, the matter is thrown into "interference", and the merits of the case decided by the Patent Office, and if they are appealed against the decision is revised by a higher court. The Board of Examiners who are the scientific part of the Patent Office decided the Sawyer-Edison interference in my favor. The Sawyer people then appealed to the Commissioner of Patents, who reversed the decision of the Board of Examiners. We have now appealed to the Secretary of the Interior, but have no idea who will win.

Anyway whoever wins, the case will be carried to the Supreme Court. There is really no great question involved in the application, and we fight it out on the general policy that whoever we have a

dispute in the Patent Office we carry the matter to the highest possible Tribunal to obtain a settlement. The Sawyer interference refers to matters in relation to paper carbon, the use of which is entirely obsolete, and if I gain the case the result will simply be a little gain of prestige on my part, inasmuch as I should never think of using paper for my loop in the present advanced state of the art.

Very truly yours,

*John*  
*I*



November, 15th.

3.

W. J. Jenks, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Referring to your favor of the 12th. inst., we shall be very glad to make equitable arrangements with you to furnish you with two machines in place of the one you now have as a spare. At the present time we have not dynamos of the class required on hand, which we could send you. I will notify you as soon as we have, and will see what proposition I can make as to taking the one you now have back again. You have such a standard equipment as we were able to estimate for at the time the contract was made with the Brockton Company. The smaller machines were not at that time designed, and it was impossible for us to contract for anything else. It is not practicable at present to use the three brushes, and I doubt very much if it would be desirable with the new system of winding, which at present is not in that state of perfection which will allow of our using it. I shall probably <sup>write you</sup> be able to discuss in the course of ten days or so as to supplying you with two smaller machines. Can not you arrange to put all the "late" lights, or those required in the morning, on one side of

Black & White Illustrating Co.  
100 N. 1st St. St. Louis, Mo.

the circuit, so as to avoid the necessity of reversing the current through the meters on one or the other half.

The Lawrence Company contracted for "H" machines and afterwards requested me to supply them with a spare, their original intention being to use an old "K" as a spare. To do what you desire will require a few extra switches and an extra resistance box I think, but at this writing we have not worked out the exact plan by which we intend to operate the two small machines in a plant where "H" machines are used for the general running.

We are doing all we can to cheapen up the wiring.

We have not, up to this writing, been able to get the cable, of which we sent you some samples, approved by the Board of Fire Underwriters. They have appointed a Committee, however, whose duty it is to look into the matter, and immediately we can get some action taken by them we will write you as to the matter.

Very truly yours,

John  
J.

1883-11-15

*Recd. Mr. J. J. J.*

November 15th. 1883

George H. Bliss, Esq. General Supt.

Chicago, Ill.

Dear Sir:-

Enclosed herewith please find statement giving the full particulars as to these dynamo machines asked for by you. If there are any further details that you desire we will send them to you. We think that we can send ~~some~~ blue prints of the foundations in the course of ten days or so.

Very truly yours,

Enclosure.

1883-11-15

El. Lt. - Foreign  
- France

November 15th.

3

J. F. Bailey, Esq.

Paris, France.

Dear Sir:-

Referring to cables elsewhere confirmed, I beg to inform you that I have cabled to the Societe Electrique Edison, Paris, stating that I have not got a man whom I can send to start the Edison Lamp Factory in Germany. So many of our men have gone to Europe that, in justice to our Home Company here and our manufacturing interests, it is imperative that we should keep what good men we now have to do our work in this country. We have a great deal of it and very few people to do it. It certainly seems to me that the Ivory Factory ought to be able to supply the man required.

Very truly yours

J. F. B.

1883-11-15

November 11th. 3.

Societe Industrielle et Commerciale Edison,

Ivry-sur-Seine, France.

Dear Sirs:-

Referring to your favor of the 12th. October, I beg to  
give you below prices of the various Armstrong & Sams engines.

14<sup>1</sup>/<sub>2</sub> x 18 engine.....\$ 1,000.00

10<sup>1</sup>/<sub>2</sub> x 12 engine..... 1,000.00

8<sup>1</sup>/<sub>2</sub> x 10 engine..... 775.00

I presume the ten per cent royalty should be paid on the  
prices named.

Very truly yours,

1893-11-15

November 15th, 3

American Bell Telephone Co.

95 Milk Street,

Boston, Mass.

Dear Sirs:-

Referring to your favor of the 13th. inst., we beg to state that the 1000 carbon buttons were shipped to you on the 13th. inst. Will you please advise us whether you will require any more than them, inasmuch as we have to rig up specially to make them, and would like to have a number made now if you are liable to order any more within the next few months.

Very truly yours,

*Juk*

I enclose you herewith our bill for the 1,000 carbons.

1873. 11. 15.

November 18th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have looked into the matter of the engine shown to Mr. Insull by you when he was in <sup>Cincinnati</sup> ~~Cincinnati~~ and I am confident that it is of such a character that it would absolutely be of no use to us in our business. It would therefore be useless for me to go further into the question, unless Messrs. Smith, Myers & Co. got up an entirely different engine. From the explanations given me by Mr. Insull, I do not wonder that they could have built the engines so much cheaper than those we now use. They are of a very cheap character and would by no means answer our purposes.

Very truly yours,

Jah  
I

1883-11-15

November 15th.

3

E. Buchol, Esq.

101 Conti Street,

New Orleans, La.

Dear Sir:-

Your favor dated October came duly to hand, but the picture referred to therein did not arrive until a day or so back.

It affords me very great pleasure to acknowledge its receipt and to thank you for your very great kindness in sending me so charming a painting. It is very difficult to do justice to such a compliment and I therefore will not do so, but simply return you my heartfelt thanks for your very great kindness.

May I ask you to accept a copy of my photograph, which I send by express.

With relation to the Phonograph, I have been so busy in developing my system of electric lighting for the past few years that I have been compelled to drop all other matters.

Very truly yours,



1883-11-16

November 18th,

3

C. E. Spiers, Esq.

22 Murray Street, City.

Friend Spiers:-

We are going to have a "L" to-night, that is we propose putting the books in order up stairs in the library.

If you have nothing particularly to do, I think it would be a favorable opportunity for you to get information as to the missing volumes and duplicate sets and also greatly assist us, if you can favor us with your company. The performance will start in about eight o'clock.

Very truly yours,



1883-11-16

November 16th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I beg to acknowledge receipt of your telegram as follows:-

"Hazelton contracts signed and forwarded to you via Reading Express, together with check and draft for twenty five per centum. Push the work."

I congratulate you on the speedy closing of these contracts, and can assure you that the work will be pushed ahead rapidly.

Our Superintendent, Mr. Rich, will be in Mt. Carmel Monday, and as soon as he has started work there, he will go to Hazelton. I presume he will be in Hazelton about Tuesday or Wednesday.

Our material for Mt. Carmel is all practically ordered, and we are assured of such early deliveries that I anticipate that there will be no delay in the installation of this plant, and I have every reason to believe that the Hazelton work will be forward with the same rapidity.

Very truly yours,

Zak I

1883-11-16

November 16th. 8

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have your favor of the 13th. inst., and in reply beg to state that it is impossible to send you an estimate for Cincinnati until we have the position of the central station lots.

The letter as to this will go forward to you to-day.

We can do nothing with the new estimate for Piqua until you give us the exact size of the lot, and the information written for some days back.

Very truly yours,

A handwritten signature, possibly reading 'S. J.', is written in dark ink.

1883-11-16

November 10th,

3

C. E. Spiers, Esq.

23 Murray Street, City.

My dear Spiers:-

Have you got a cut of Mr Edison's arc lamp?

Prescott wants it for his book.

Very truly yours,



1873-11-16

November 16th.

3

Mrs. E. Adams,

180 Irving Street,

Woodside, N. J.

My Dear Mrs. Adams:-

Can you tell me the exact date that your late husband first sailed for England? We want to get at it in connection with some of our business here *on telephone suits*

Yours very truly,



1853-11-16

November 18th. 3

Paul D. Dyer, Esq.

care A. Stuart, Esq.

Cincinnati, Ohio.

Dear Sir:-

Under separate cover we send you some of our special  
now  
reports, which we desire you to fill out for each town you canvass.  
Please be careful to obtain as reliable information as you can  
possibly get in regard to local prices. We also wish you would  
note on this report the date you arrive in a town and the date you  
leave it.

Very truly yours,



1883-11-16

November 16th, 3

Paul D. Dyer, Esq.

New Orleans, La.

Dear Sir:-

Referring to your favor of the 13th. inst. with relation to the trouble at Circleville, Mr. Edison state that the fault was with the engine used. He cannot imagine how the local people expect to bring the lamps up to the candle power with ~~the engine~~ <sup>it</sup> running at 1100 revolutions when 1500 revolutions is required. Rotary engines generally take in steam at 100 lbs. and let it out at 40 lbs. Four horse power is all that is required.

Very truly yours,

*Edison*  
*P.S.*

1883-11-16

November 16th. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We enclose herewith blue prints of the districts of  
*Haystack*  
Tiffin and Mt. Carmel, together with plans of our central stations.

We desire you to send us a complete list of the electrical material required in each of these places, *as quickly*  
*as possible*

Very truly yours,



Enclosure.



1893-11-16

November 18th. 3

Paul A. Dyer, Esq.

Post Office,

New Orleans, La.

Dear Sir:-

I enclose you herewith letter of introduction to Mr  
W. B. Berliner, of the La. Telephone Co., New Orleans, La., who is  
the gentleman you are to see there.

Very truly yours,

1883-11-16

November 10th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

In accordance with the attached forms we send you under separate cover by same mail two blue prints each of Synthiana and Haysville. One of these prints is marked with the red circle, in which it is desirable to obtain options on lots, and the other one shows where we propose running our lines. We send you these latter in order that you may inspect them and if there are any difficulties which would prevent our following the course shown on same, we shall be glad to be advised of it. Furthermore if there are any additions which you wish to make or any portion of the districts marked that you desire to cut off, we wish you would advise us by letter to that effect, at the same time returning the charts which we send you.

We pursue this course in order that it may not be necessary for us to make more than one electrical determination for each place, as those determinations consume a great deal of time, which at the present moment we can but ill afford to lose. The date when you will receive the estimates for those places entirely depends upon the degree of promptness which is used in

DEAR SIR:-

STRICTLY CONFIDENTIAL

CHICAGO

RE: [illegible] [illegible] [illegible]

returning to us the information asked for herein.

Very truly yours,

*Wak*  
*I*

Enclosure.

1283-11-16

November 16th. 3

Messrs. Borgmann & Co.

302 Avenue B, City.

Dear Sirs:-

The bearer of this, Mr. Wikler, has been engaged by us to take charge of the construction of our pole lines for village plants.

Will you please confer with him as to any stock you may have on hand which might be useful to us in this work, as I may possibly be able to take it off your hands.

Yours truly,



1883-11-16

November 10th.

3

Patrick S. Carter,

Telegraph Instrument Makers,

Philadelphia, Penna.

Dear Sirs:-

Can you possibly give me the date that you made the first telephones for me, together with a copy of the order, copy of the bill you rendered me and where the telephones were delivered and any such information that might suggest itself to you.

If you have copy of the drawings used by you in making the above referred to telephones, I should be glad if you could loan them to me.

Very truly yours,

*Wm*  
*I*

*I refer more especially to the Carbon  
Telephones*

1883-11-16

November 16th. 3

E. T. Greenfield, Esq.

41 Ann Street, City.

Dear Sir:-

The bearer of this, Mr. Hibler, has been engaged by us to take charge of our line construction work for village plants. Mr. Hibler informs me that he is acquainted with you. If you can give him any information such as your experience at Sunbury and Shemokin would suggest to you, I shall be much obliged.

Very truly yours,



1853-11-16

November 18th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N.Y.

Dear Sir:-

In accordance with the attached form we send you under separate cover by same mail two blue prints of Poughkeepsie, one marked with a red circle, within which it is desirable to obtain options on lots, and the other shows the course of our street installation. In relation to the latter, we wish you to examine it very carefully, and if there are any obstacles which would prevent our running the lines as shown thereon, we desire you to advise us of them by letter, also make any suggestions you may think desirable. Furthermore if you wish to add to the district or cut off any portion of it, we desire to be advised of the fact with accurate information as to alterations. We pursue this course in order that it may be necessary for us to make only one electrical determination, which shall be final, as at the present time we are so pressed with work that we can very ill afford to lose time over anything.

Very truly yours,

*Zak*

1883-11-16

November 16th. 3

H. Ward Leonard, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

Will you please send me an exact statement of the customers connected, the number of lights they are burning, the amount of their bills, for last month. Those collected and uncollected. Also the amount of the running expenses of the station for last month and ~~also~~ other detailed information that you can give me, as I have again and again asked you. What I desire is a detailed statement and not the general remarks to the effect that everything is running smoothly.

Yours truly,

*J. W. Leonard*



1883-11-17

November 17th. 3

N. C. Yost, Esq. Treas.

Edison Electric Illuminating Co.

Hazleton, Penna.

Dear Sir:-

I beg to enclose you herewith contract signed by myself for the erection of a central station plant at Hazleton, Pa., and I have the pleasure to acknowledge receipt through Mr. Shaw of your check for \$1,000. and the draft of your President drawn in my favor at ten days sight for \$4,171.10, the latter being accepted by you on the 15th. November.

My Superintendent leaves here to-morrow night for Mt. Carmel, Pa., and immediately he gets through there, which will be about Tuesday, he will proceed to Hazleton and start the work there. Meantime all our material has been ordered, and we will push the construction of the station as vigorously as possible.

Very truly yours,

Jac  
By S. J. Attorney

Enclosure.

1893-11-17

November 17th. 3

P. B. Shaw, Esq.

Williamsport, Penna

Dear Sir:-

I have your favor of the 14th, inst. enclosing two signed copies of the contract for the installation of a central station plant for the Edison Electric Illuminating Company of Hazleton, also check of the Treasurer for \$1,000. and also a draft drawn by the President and accepted by the Treasurer for \$4,171.10 payable the 20th. of this month. I have acknowledged receipt of same to the Treasurer of the Company.

Very truly yours,

*Yours*

November 18th. 3

Straight Line Engine Co.

Syracuse, N. Y.

Dear Sir:-

I have your favor of the 18th. inst. and note contents.

I will discuss the matter with Mr. Sweet on his visiting me here in New York. I have wired you this morning that I will see him any day that he may call upon me.

Very truly yours,

Zach  
L

1883-11-19

November 18th. 1883

John De Lacy Duffy, Esq.

132 Nassau Street, City.

Dear Sir:-

Referring to your favor of the 17th. inst., all we require is men to make maps to scale here in our office from data already obtained by our agents outside.

Very truly yours,

A handwritten signature, possibly reading 'S. H.', is written in dark ink below the closing text.

1883-11-19

November 18th. 8

S. B. Eaton, Esq. Prost.

City:

Dear Sir:-

We have your favor of the 18th. inst., and can have the estimates you refer to made immediately we learn from Mr. Markle the towns he requires canvassed.

Can you give us his address, as we wish to reach him by telegraph immediately, in order to give our canvasser, who is now in Madison, instructions to proceed into Mr. Markle's territory?

Very truly yours,

*Wm*  
*J*

1883-4-19

November 16th. 3

Frank H. Mc.Cormick, Esq., Pres.  
Williamsport, Penna.

Dear Sir:-

Will you please have the certificates of stock due Mr Edison, under his basis of settlement with you, issued in his name immediately the authorization of the increased capital is effected. Of course if the Company decide to pay the cash instead, we shall be glad to receive your Treasurer's check for the balance still due.

Very truly yours,

*SL*  
*P.S.*

1883-11-19

November 19th, 1883.

Gustav Soldan, Esq. Supt.

104 Goorek Street, City.

Dear Sir:-

Mr. Hutchinson reports to me that he is very anxious to get some more 30 light machines. Will you please hurry the orders you have for them, namely, the balance of the ten on an old order and the ten which I recently ordered from you.

We are also urgently in need of 200 and 300 light machines.

I enclose you herewith an order for ten 200 light machines, and would urge you to get the requisitions ~~made~~ quickly as possible. I am urgently in need of at least five of them.

Yours truly,



1883-11-19

November 16th. 1883.

Gustav Soldan, Esq. Supt.

104 Georek Street, City.

Dear Sir:-

Will you please alter my order No.25, for ten 200 light dynamos, to five 200 light dynamos, as I find that will be quite sufficient for present purposes.

I enclose you herewith a further order (No.26) for five 300 light dynamos.

I may state that every dynamo ordered by me to built has now been placed. This remark applies equally to the orders some-time previously placed and those sent to-day, including the above, and you will therefore see how necessary it is to push them through quickly.

Yours truly,





1583-11-19

November 18th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I beg to enclose you herewith all the letters we have received recently from Shamokin with relation to the engine there. I received a second telegram yesterday stating that a second engine had broken down. The reports from our man do not seem to agree exactly with the statement of the case as shown in your favor of the 14th. inst.

Will you please return this correspondence as soon as possible, and oblige,

Very truly yours,

*Zah*  
*I*

Enclosure.

1883-11-19

November 18th. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 14th. inst., we will supply Mr. Lord with the spare dynamos at the earliest possible moment, but at this writing it is impossible to say how soon <sup>that</sup> ~~we~~ will be. We are straining every nerve to turn machines out, but when I tell you that the patterns were only completed the last of last week you will understand that it will take a little time before we can have the machines ready to deliver to Mr. Lord, inasmuch as we have Isolated Company orders of from three to four months standing, which take precedence of everything else.

Very truly yours,



1883-11-19

November 18th. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.,

Lawrence, Mass.

Dear Sir:-

I think we ought to pay Mr Parry a salary just to cover his boarding expenses, or I might pay his board and a nominal salary besides. Will you please let me know how useful he is to you and we will pay him accordingly?

I have another man who is by no means as well posted as Parry, but whom I should like to send out to a station to learn the practical work. <sup>if you can use him</sup> I was thinking that you might well do this if you were to put him say under Doubleday at Fall River.

Will you please let me know if you can make any disposition of his services, <sup>he is here</sup> ~~as at present~~, and all the experience that he has got has been in Georel Street for the last few months, and before he went there he was with Messrs. Verity, of London. I fancy he was their bookkeeper, but he has a liking for mechanics, and I should very much like to make use of him if only <sup>as</sup> a favor to Mr. Johnson. Of course if you <sup>start to</sup> ~~can~~ use him and find out afterwards that he is of no use, we could tell him so.

Please advise us as to this at your early convenience.



183-11-19

November 10th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to your favor of the 10th., I telegraphed you on Saturday to send an engine, with the same size pulley as that previously sent, to Shamokin. I received a telegram yesterday from Shamokin stating that the second engine had broken down, and immediately wired you to send a man on to Shamokin at once. I have wired you this morning asking you to answer my telegram, as I am very anxious to know whether the engine has been shipped and if the man has started, as I am very much afraid that our Shamokin plant would come to a standstill, and this would be very disastrous. Every moment's delay in not sending your man there will cost us a great deal of money, as we are only able to run one engine now, which compels us to reverse the current through the motors and this prevents our getting any correct meter records.

Very truly yours,

*Zac J.*

*Have since got your telegram saying engine  
leaves for Shamokin tomorrow*

1853-11-19

November 18th, 3

W. H. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 15th. inst. to Mr. Edison,  
he now instructs me to send you a copy of the questions and answers  
but wishes to impress upon you that this is solely for your use.

Very truly yours,

A handwritten signature, likely of Thomas Edison, consisting of a stylized 'E' followed by a flourish.

1883-11-20

*Brockton* November 20th. 8

W. J. Jenks, Esq. Manager.

Brockton, Mass.

Dear Sir:-

Will you please inform me if you think we can take  
our experts away from Brockton right away. If not, what date  
would suit your convenience?

Yours truly,

*Jak*  
*I*

1893-11-20

November 20th. 3

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We beg to draw your attention to the fact that there is still ~~xxx~~ a balance of \$2,000. due to us under our contract with you for the erection of the plant at Shamokin. It was the understanding of our Mr Insull when in Shamokin last that the balance due at that date should be settled shortly from the proceeds of sales of \$3,000. of bonds. We have only so far received a remittance for \$1,000. on this account, and would esteem it a favor if you would oblige by sending us a check for \$2,000. to balance, so that we can close out our account.

Very truly yours,

*J. M.*



1883/11/20:0

November 20th. 3

W. D. Rich, Esq.

Bush House,

Bellefonte, Penna.

Dear Sir:-

We are notified by our freight broker that he has secured for us the following rates:-

For Tiffin, Ohio, via the Lackawanna & Mt Wreight Line, first class, 50 cents, second class, 40 cents, third class, 35 cents, fourth class, 27 cents. Each of these rates is subject to a rebate after the arrival of goods at their destination, as follows, first class, 6 cents, second class, 4 cents, third class, 3 cents, fourth class, 2 cents. To Newburgh, via the New York, West Shore & Buffalo, first class, 20 cents, second class, 20 cents, third class, 10 cents, fourth class, 10 cents, and carload lots are to be billed at  $7\frac{1}{2}$  cents per hundred pounds, and anything less than carloads, but not less than 5000 pounds is to be billed at 6 cents. To Mt. Carmel, Penna., via Philadelphia & Reading, first class, 40 cents, second class, 32 cents, third class, 25 cents and fourth class, 18 cents, upon shipments in carloads we can obtain a rate of  $14\frac{1}{2}$  cents per hundred pounds, but on account

of the irregular manner in which it is necessary to be sent forward we do not expect to be able to take advantage of this rate of 14 1/2 cents.

Very truly yours,

By

1883-11-20

November 20th. 3

W. Preston Nix, Esq.

338 West Main Street,

Louisville, Ky.

Dear Sir:-

We have your letter of the 17th. inst. in reference to the option on the lot chosen for central station purposes in Louisville running out in ten days.

We enclose herewith map of Louisville, and beg to call your attention to the fact that if we can obtain a lot in Blocks 40, 41 or 42, which are marked in redlead pencil, it will reduce the cost of the street installation by about \$20,000. The most desirable point for this lot is where we have made a star in red. You will see that it would be economy to pay a good price for a lot in this locality, considering the heavy expenditures which will be avoided by doing so.

Kindly let us hear from you as quickly as possible as to what you can do in the matter, and oblige,

Very truly yours,

The T. A. Edison Constn. Dept.

By 

1873-11-20

November 20th. 3

Messrs. Harris & Robinson,

Trust Co's Building,

Hartford, Conn.

Dear Sirs:-

Mr. Hastings referred to us a letter from you a few days ago in which you requested a memoranda of the installations we have made and the amount of each contract. We beg to attach a statement giving the information you desire. The first column shows the nominal capacity of the plant, the second the number of lights included in the district wired and the third the total amount of the contract.

Very truly yours,

The T. A. Edison Constr. Dept.

By



1883-11-20

November 20th. 3

Spencer Borden, Esq.,  
P. O. Box 3311,  
Boston, Mass.

Dear Sir:-

In reply to your favor of the 10th. inst., which through  
press of work has remained unanswered until to-day, we beg to say  
that we were fully aware of the fact that we had not included  
spares in the estimates for Norwich and Natick. You will notice  
that the boiler capacity necessary for the operation of these  
plants is 93 horse power and we have supplied in each case a 14<sup>1</sup>/<sub>2</sub> x  
13 engine to do the work. By reference to the tabulated formula  
of indicated horse power at different initial pressures of steam  
in the Armington & Sims catalogue, you will find that at 350  
revolutions per minute the maximum capacity of the engines above  
referred to is 202.3 horse power with 100 lbs. pressure.  
In practice we usually employ about 120 lbs. pressure, and, in  
order to satisfactorily and efficiently operate a plant of the  
size of the one in question, the speed of this engine need not  
go over 250. On this account there is so much margin left that we  
consider it unnecessary to furnish a spare engine.

1882-11-15

In relation to the dynamo, the machines which we propose supplying are of the type known as the "Y" machines, and their maximum capacity is 507 lights. By this you will see that the actual capacity of each of these plants is 1,134 lamps, instead of the unit we employ, namely, 1,000. In the case of Norwich the conductors are calculated to carry 1,210 lights, as shown on the estimate, and in the case of Natick they have been calculated at 1,000 lights. In each of these instances the number of lights embraced by our street installation is the maximum number that can possibly be burning at any one time. In order to tax these conductors to their fullest extent it would be necessary that every light in every building in the whole <sup>district</sup> covered by them should be lit and this is an event which will never take place.

In relation to our proposed buildings for central station purposes, if at any time it is desirable to increase the capacity of the plant it can be done by making additions to the buildings, but inasmuch as our experience has proved to us that large and expensive buildings (expensive in comparison to the size of the plant) are derogatory to the acceptance of our estimates, we considered it advisable in each of these cases to design a building just sufficiently large and convenient for the working

By this letter, the  
maximum capacity is 200 lights.  
The above from the T. A. Edison  
concerning the use of the above from the T. A. Edison  
concerning the use of the above from the T. A. Edison

1883-11-20

1883-11-20

3

of the plants we proposed to install at Norwich and Natick.

If in either case the local people, with whom we have to deal,  
desire a larger building erected, we will furnish plans and esti-  
mates for it.

Trusting that this explanation will satisfy you on the  
points in question, we are,

Very truly yours,

The T. A. Edison Constr. Dept.

By



1883-11-20

November 20th. 3

Spencer Horden, Esq.

Boston, Mass.

Dear Sir:-

We beg to return herewith letter and sketch addressed to Mr Hodgkinson by Mr. D. S. Bates.

In commenting upon the same, we would say that it is impossible for us to prepare such a map as we can estimate from unless we have a chart drawn to scale. We should like to obtain a chart of Webster such as we have described, but we do not feel that we can go to the expense of having a survey made of the town in order to obtain it. As a general thing in places of this size there is a city engineer, and from this gentleman we obtain the chart we require at a cost which has never yet exceeded \$25., even in places of the size of Kansas City. We shall be glad if you can suggest any way in which we can obtain the maps we have asked you for, and trust that you will favor us with an early response to this letter.

Very truly yours,

The A. Edison Constn. Dept.

By





1873-11-20

November 20th.

3

My Dear Mr. Waterhouse:-

I leave here for London on the 11th. December, and shall be glad if you will kindly cable if there are any matters requiring Mr. Edison's <sup>particular</sup> attention prior to my departure, so that I can get them all in shape before I leave.

I thought possibly there might be some documents in connection with the amalgamation scheme requiring his signature, and it would be necessary for me to arrange to have them fixed up on their arrival here before I leave, otherwise they would, in all probability, have to remain over until my return the end of January.

While in London I hope to do myself the very great pleasure of calling on you, and will then give you some idea of the progress of our lighting business in this country.

I remain, My Dear Mr. Waterhouse,

Very faithfully yours,



1893:11-20

November 20th. 3

Messrs. Armington & Sims,

Providence, R. I.

Dear Sirs:-

When you are making shipment of our Newburgh engines, please forward them by the New York & New England Railroad, as we have a special rate on that line which we desire to take advantage of.

Very truly yours,

The T. A. Edison Consth. Dept.

By

A handwritten signature, possibly reading "S. I.", is written over the word "By".

1883-11-20

November 20th. 3

W. S. Andrews, Esq.

Care Edison Electric Illuminating Co.,

Lawrence, Mass.

Dear Sir:-

We have your letter of the 15th. inst., and have ordered the material you required.

In relation to the large copper wire .43 inches diameter, we find that the Ansonia people cannot supply this for about three weeks. We are trying to get it elsewhere, but at this writing cannot tell how successful we may be.

In order to avoid a repetition of the delay which may take place in furnishing you with this material, we would suggest that you send us a statement of wire and other material for inside work such as you think it would be advisable for us to carry in stock. Please let us have this as early as possible, so that there may be no delay when material is required for the balance of the installations now in hand.

Very truly yours,

The T. A. Edison Constr. Dept.

By



November 20th. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

We beg to enclose herewith map of the district of  
Holliston, together with plan of the central station which we  
propose erecting at that point, and wish you to send us information  
at the earliest possible moment in relation to what electrical  
material we will require for the inside of same.

Very truly yours,

Thos. A. Edison Constn. Dept.

By

*A. E. T.*

1883-11-21

November 21st. 3

W. D. Rich, Esq.

Bush House,

Hellofonte, Vienna.

Dear Sir:-

Referring to your arrangements with us as Superintendent of Construction, we beg to advise you that we have credited your account with the amount of \$300, on account of the remuneration to be paid you outside of salary.

Please advise us what disposition you wish made of same.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1913-11-21

November 21st. 3

Colonel Goddard,  
City.

My Dear Colonel Goddard:-

What evening can you spare to go into the question of bookkeeping for our local illuminating companies, which you so <sup>kindly</sup> promised to do sometime back? What I would like to do would be to arrange a meeting with yourself, Hutchinson, Tate and myself, and I have no doubt that if you can make an appointment that the remainder of us can accomodate ourselves to your time.

Very truly yours,

A handwritten signature, possibly 'S. H.', in dark ink.

1583-11-21

November 21st. 3

Messrs. Hale & Wolcott,  
30 Court Street,  
Boston, Mass.

Dear Sirs:-

Referring to the correspondence you have had with  
Mr Lowrey with relation to the suit Welch vs Edison, I beg to  
state that I have been trying to get at the whereabouts of Mr  
Milton Adams. I now learn that he is in the City of Mexico and  
will return to Europe via New York. I shall hope to advise you  
early of his return, so as to enable the necessary examination of  
him to take place in New York.

Very truly yours,

*Wm*

1883-11-21

*Telegraph*

November 21st.

3

Oliver E. Lyman, Esq.

45 William Street, City.

Dear Sir:-

Referring to your favor of the 15th. inst., I beg to state that I have not written any paper on Underground Tolographic Systems. There is no reason whatever, except on the score of expense, why all wires operating electrical apparatus should not be underground.

Very truly yours,

*John I*



1553-11-21

November 21st.

3

Compagnie Continentale Edison,

Paris, France.

Dear Sirs:-

Referring to your favor of the 15th. October, I understand that the papers in the Austrian suit have been sent forward to you sometime back.

Very truly yours,

*Fuer*  
*I*

1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Yours of the 30th. inst. to hand.

We yesterday ordered to be shipped to you some marine  
glue from the Central Station.

I cannot say at this moment when Conant will go to  
Lawrence. I am trying to get Leonard from Brockton to go there,  
but I do not know, however, whether they can spare him from  
Brockton yet.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1783-11-21

November 21st, 18

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

Referring to your bill of the 20th. inst. for one No. 32, 8.2 x 10 engine, I beg to notify you that we do not propose at present to place the amount of the bill in question to your credit, inasmuch as we are not at all satisfied that the trouble with the engine at Shamokin is the fault of our people there. If the cause of the failure of the engine is owing to the fault in the engine itself, we shall not expect to pay for a new engine being sent to Shamokin. Pending the settlement of this matter we will hold the bill.

Very truly yours,

*J. H. I.*

1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Kans.

Dear Sir:-

Referring to your favor of the 19th. inst., we are going to have Crower test the sulphate of zinc such as sent to Lawrence. We may remark that we ordered exactly the same as that used by the Edison Electric Illuminating Company's down town station.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883-11-21

November 21st. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I have your favor of the 20th. inst. as to short postage on the map sent you. I feel very much annoyed that such a blunder should have occurred in my office. Under separate cover the maps have been forwarded to you to-day.

I have written Perry to-day stating that we will pay him \$12. per week and his travelling expenses when ordered from one town to another. I think this will please him to start on.

The gentleman, whom I propose to send to Fall river, will leave here immediately we have a telegram from you on the subject.

Very truly yours,

Thos. A. Edison Constr. Dept.

By



1883-11-21

November 21st. 3

Major Flood Page, General Manager,  
Edison's Indian & Colonial Electric Co.,  
4 & 6 Throgmorton Avenue,  
London, E. C. England.

Dear Sir:-

Your favor of the 17th, September came duly to hand.

I have been unable up to this writing to send you the prices of our machines in consequence of the models not having been turned out until quite recently. I now send you tabulated statement which will show you the prices, speed, size &c. of the various machines we are now building. It is very difficult to get up a sample installation such as you ask for, and I think you would do better to draw on the experience of the London Company in this connection.

Very truly yours,

*Tate*

1883-11-21

November 21st, 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

Your various letters as to Tiffin have duly come to hand.

We have delayed sending a wireman to Tiffin in order to try and avail ourselves of a cheaper form of wiring, which we have not been able to do up to this writing as it has not been accepted by the Board of Fire Underwriters. They have, however, the matter under advisement and promise to consider it and either refuse or accept our new form of wire. Meantime we have decided to send our wireman to Tiffin, and hope to be able to despatch him in the course of about three days. We must confess that we think you are in undue haste to get the ~~houses~~<sup>necessity</sup> ~~wired~~ in Tiffin, and we fail to see the ~~necessity~~ for your extreme anxiety in relation to the matter. Our work at Tiffin will not be interfered with by the frost.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ry



1893-11-21

November 21st.

3

Societe D'Appareillage Electrique,

2 Boulevard du Theatre,

Geneve, Switzerland.

Dear Sirs:-

We have your favor of the 18th, October,

We hope to send you in the course of a week or so  
drawings of our 25, 50, 200 and 300 light dynamos.

We send you herewith statement of the speed and size of  
pulley of each of our machines we are now building, together with  
prices at which we are prepared to ship them F.O.B. New York City.  
We are prepared to take any orders from you and construct machines  
and undertake to ship same about twenty (20) or thirty (30) days  
after receipt of order. If your orders are small it is highly  
probable that we would be able to ship <sup>immediately</sup> ~~immediately~~ on receipt of  
order. The reason that the catalogue of the Edison Company for  
Isolated Lighting contains so little about dynamos is that it was  
issued at a time when my experiments in changing over our machines  
rendered it impossible for the Isolated Company to get at suffic-  
ient data to enable them to give proper information about the



1888  
1893-11-21

2

mos.

The Electric Tube Company does not publish any catalogue. I will, however, obtain from them a pricelist and forward it to you in the course of a day or so.

The other inquiries contained in your letter shall receive my attention within the next week, and I will endeavor to answer you fully in relation thereto.

Very truly yours,

Zak  
J

Enclosure.

1883-11-21

November 21st. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

I am in receipt of your favor of the 16th. inst. covering contract between myself and the Bellefonte Company for the installation of an electric light plant in Bellefonte. I have also the draft of the President drawn in my favor on the Secretary of the Company. I cannot act on this matter until I get a copy of the estimate as amended. Immediately I get this I will communicate with the Members of the Bellefonte Company in relation to the matter. Meantime our work will be pushed ahead. I am expecting that Mr. Rich will be in Bellefonte either to-morrow or the next day.

Very truly yours,

*Shaw*

1883 11-21

November 21st.

3

Societe D'Appareillago Electrique,  
8 Boulevard du Theatre,  
Geneve, Switzerland.

Dear Sirs:-

Referring to your favor of the 18th. October, I beg  
to state that the contract with Messrs. Siemens & Halske refers  
alone to Germany. It is made between the Societe Electrique  
Edison of Paris and a Berlin Syndicate. I cannot understand how  
Messrs. Siemens & Halske can inter~~se~~ with your business, as they  
have no rights whatever outside of Germany. I am now in course of  
negotiation with my Paris Company with a view to getting better  
protection of our mutual interests in Switzerland. The competi-  
tion which the Paris Company have entered into against your Com-  
pany's sales is entirely unauthorized by me, and I am doing all  
that is in my power to prevent the same.

Very truly yours,

*L. L.*

1883-11-21

November 21st. 3

G. W. Wilber, Esq.

Hotel Woldmeister,

Atlanta, Ga.

Dear Sir:-

We have your favor of the 17th. inst..

We cannot state exactly where you will go after you get through at Atlanta, but will let you know as soon as possible

Many thanks for your kind wishes in connection with my trip to Europe, but I shall be here for two or three weeks yet.

Very truly yours,



1913-14

November 21st. 3

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

We beg to notify you that from this date you will be credited with a salary at the rate of \$5. per day, instead of \$4.50 as heretofore.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883.11.21

November 21st. 3

W. S. Andrews, Esq.

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

Owing to the rapid growth of our business and the possibility of our having quite a large electrical staff, we find it necessary to place someone in control of the electrical part of our central station work. We have decided to give you control of all electrical work in our stations and of the men engaged in such work, whether in fitting up stations or in running same after <sup>that</sup> ~~it~~ has been started. We shall pursue the same course with relation to the interior of the station as that followed for some time past, namely, we shall look to you to communicate to us what <sup>it</sup> is desirable each station should contain electrically, and also how the instruments &c. shall be arranged.

It would seem to us desirable that you should not spend all your time in one place, but you should make such disposition of your men as to enable you to go from place to place and keep a proper oversight of the work.

Mr. Rich, as Superintendent of Construction, is now building Fall River, Mt. Carmel, Bellefonte, Hazleton, Tiffin and

Newburgh stations. Immediately these stations are in condition to have the electrical part of the work done it will be necessary for you to start same. You should also be on hand to start the stations when we are ready to light up.

At present our staff is as follows, Mr. Conant, Mr. Doub-  
 today, Mr. Leonard, Mr. Oakley and, as my last letter indicates to  
 you, Mr. Perry. These gentlemen will be under your direction, and  
 we shall look to you to state exactly what disposition should be  
 made of them.

We think it would be well, immediately you have started  
 on Fall River, for you to repair to New York and consult with us  
 in relation to the matters contained in this letter.

Of course we shall look to you to see that your staff  
 works in unison with Mr. Rich.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883-11-21

1883-11-21

November 21st.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batchelor:-

Your favor of the 4th. came to hand this morning.

Edison states that he thinks very well of the idea of a 1000 light wire wound armature.

We have now sent models of the 25 and 50 light machines to Germany. This will give them models for the 25, 50, 100 and 400 light machines. I propose cabling and asking them whether they want model 200 and 300 light machines.

We were all delighted to hear that you thought of coming home. My letter of about two weeks back will have given you full information as to what we are doing here.

*But* I could doubtless sell your Isolated Stoopk at par, ~~by~~ am inclined to cable you asking whether it is necessary to do this in view of Edison's authorization to draw on him for \$1,000. I do not understand now whether you wanted \$1,000. or \$10,000., hope it is the former, as money in the latter amount is very



Chicago letter

Memorandum

scarce horseabouts. I do not anticipate that I can get more than par for Isolated stock, it is nominally quoted at 120 to 130, but strictly encre nous I may state that it is a question whether the Isolated Company will pay their dividend this year, because their expenses are something terrible, and it looks very much as if it is the old tale of bad management!

We have not yet been able to get a man to run the Armington and Porter engines, but as soon as we do so will send him forward.

Very truly yours,



1883-11-21

November 21st. 3

M. C. Holknep, Esq. Treas.

Edison Electric Illuminating Co.

Highland National Bank,

Newburgh, N. Y.

Dear Sir:-

We beg to acknowledge receipt <sup>your favor</sup> of the 19th. inst. covering draft for \$0,500., being twenty five per cent due me under the terms of contract dated October 29th. 1883.

My engineer will be in Newburgh to-day to consult with the builders in relation to the building. We are pushing our street mains as quickly as possible, and will commence shipping same sometime this week, and I am in hopes that our men will be in Newburgh to lay the mains sometime next week.

Immediately your building is well under way we can push our work very quickly, as we have the material ordered, and are simply waiting the finishing of the building.

Very truly yours,

AS  
attorney

1583-11-21

November 21st. 3

George P. Miss, Esq. General supt.

Chicago, Ills.

Dear Sir:-

Again referring to your favor of the 14th. inst., I beg to give you below copy of the memorandum received from Mr. E. H. Johnson in relation to the trouble you complain of with the Automatic regulators:-

"I presume this is due to the increased resistance of the magnet coil when heated. The remedy that occurs to me is to occasionally re-adjust the spring. I have not noticed any such action in our own."

Very truly yours,

*J. H. L.*

1893-11-21.

November 21st. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I have your favor of the 19th. November, and have the pleasure to enclose you herewith assignment of twelve and one half per cent of my <sup>Contract</sup> ~~agreement~~ with the Edison Electric Illuminating Company of Bellefonte, Penna. I also enclose you copy of the agreement referred to for your files.

You omitted to send me the formal order for the wire, which heretofore I have been in the habit of executing.

Very truly yours,

*JAC*  
*J*

Enclosure.

1883-11-21

November 21st. 3

G. H. Cooke, Esq.

Post Office,

Grand Haven, Mich.

Dear Sir:-

After you get through at Madison, Wis. please canvass Grand Haven, Miles, Battle Creek and Tpsilanti, all in Michigan. It would be as well for you to communicate with Mr John R. Markle, P. O. Box 97, Detroit, Mich., as it is for his account that we are making the canvasses. Please canvass these towns in the order <sup>are</sup> they named.

Very truly yours,



1883-11-21

November 21st. 3

W. H. Dwyer, Jr. Esq. Treas.,  
Edison Electric Illg. Co.  
Fall River, Mass.

Dear Sir:-

Your letters and telegrams as to sending Greenfield on to Fall River came duly to hand, and we wired you last night that Fitch would leave this evening with one man and suggesting that you had better look up other men in the meantime. Of course the shorter the time that you keep Mr. Fitch in Fall River, the less will be the expense to yourself. I do not know exactly what you will have to pay for his services, but I presume it will be a small amount <sup>over</sup> ~~on~~ ordinary wages and board. However, I shall charge you whatever Greenfield charges me.

I am strongly of the opinion that your Company should have nothing to do with the wiring, that is so far as the consumers are concerned. You know my views fully on this subject, and I will therefore not trouble you individually.

Very truly yours,

Thomas Edison Constn. Dept.

By

St

1883-11-22

November 22nd. 3

Paul D. Dyer, Esq.

101 Carondelet Street,

New Orleans, La.

Dear Sir:-

I enclose you herewith information as to part of the  
territory that it is desired should be canvassed in New Orleans.  
Of course you will canvass considerably outside of the area named.

Yours truly,

Handwritten signature, possibly "S. J. 3.", written in dark ink.

1883-11-20

November 22nd, 3

H. M. Doubleday, Esq.

Care Edison Electric Illg. Co.

Lawrence, Mass.

Dear Sir:-

I send you herewith a book of questions and answers, and would draw your attention to the fact that it is marked for private use only. You must not show this book to anybody whatever without the permission of this office. I also return you your answers, on which you will notice a few remarks by Mr. Edison. He says that the answers are very good, and that you can post up with the further assistance of the book sent you to-day, and Mr. Andrews. Please return your answers when you have looked over Mr. Edison's remarks.

Very Truly Yours,

Thos. A. Edison Constn. Dept.

By





1883-23

Danbury

November 22nd. 3

Messrs. Harris & Robinson,  
Trust Co's Building,  
Hartford, Conn.

Dear Sirs:-

We have your favor of the 14th, inst.

We were unable to answer it by return mail as the writer was out of town. You will find in the Danbury estimate under the head of "Starting Station" 250 lamps are put in at sixty cents each, but since the estimate was made the price has been reduced to fifty cents. The customers do not pay for the lamps. They are paid for by the Company, just the same as the Company would pay for coal in the running expenses. In fact lamps are part of the running expenses. The local company will have to pay fifty cents for the lamps, which is the same price as the Lamp Factory sells them to all its customers. The lamps you refer to are the sixteen candle lamps, and these are sold at forty cents. Our lamps will average upwards of 600 hours life, but no absolute guarantee is given as to this. As a matter of fact they average considerably more than 600 hours, and we set this time of burning in order to be within the mark.

We sent you yesterday all the information we have about  
Brockton.

3  
Duke's Roadway

1883-11-22

1883-11-22

1883-11-22

2

The Newburgh Company was formed sometime ago and the plant is now being erected. Within the last week we have closed contracts for Bellefonte, Penna. 800 lights, Mt. Carmel, Penna. 500 lights, Hazleton, Penna. 1,000 lights, and these plants are now being erected. Besides these we are running a plant at Tiffin Ohio for 1,000 lights. We have in all six central stations now in the course of construction, besides Sunbury, Shamokin, Lawrence and Brockton, which have been running some considerable time now.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1883-11-22

November 22nd. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Friend Hughes:-

Again referring to your favor of the 15th. inst.,

Mr Edison says that he does not like the idea of lighting Rondout  
and Kingston in the way you <sup>state</sup> ~~suggest~~. I would suggest that talk  
to Mr Edison about the matter the next time you see him.

Very truly yours,

Thos. A. Edison Constr. Dept.

By 

1883-11-20

*Bergmann*

November 23rd.

3

Messrs. Bergmann & Co.

253 Avenue B, City.

Dear Sirs:-

Have you received from Milan two sockets? We have a letter from them in which the following occurs:-

"We have sent to Bergmann & Co., upon the suggestion of Mr. Bailey, two sockets out of the 500 of the last shipment. We have found them so roughly made, besides the general defects of the new model of key sockets, that we will not take them without a reduction in price of not less than fifty per cent."

Very truly yours,



1883-11-22

November 22nd. 1883.

David Wilson, Esq.

645 West 33rd. Street, City.

Dear Sir:-

Will you please make one set of zines for the 200  
light machine of the metal you would propose using, providing we  
gave you orders for our zinc castings at 5 <sup>3</sup> 4 cents per pound.  
What we want to get at is the quality of the metal, how we can  
work it and its tensile strength.

Please let us have this as early as possible.

I enclose you formal order to cover it.

Very truly yours,

The Edison Machine Works,

By 

1883-11-22

November 22nd:

3

Domas Barnes, Esq.

20 Park Row, City.

Dear Sir:-

Referring to your favor of the 7th. inst., my opinion on the application of electricity to cars is that the motor should in most cases be placed directly under the cars, and that for small roads, such as street railroads, elevated railroads in New York or the underground railroad in London, electric locomotion is the coming method. I think that after one road has been operated in this country electrically, so as to gain actual experience and a chance to surmount what difficulties and objections may be found, that success would be comparatively easy.

Very truly yours,

*Tak*  
*9*

1883-11-22

November 22nd, 8

J. H. Corry, Esq.

Lock Box 54,

Elgin, Ills.

Dear Sir:-

Referring to your favor of the 10th. inst., there is no substance that can be used in the place of carbon pencils for an are light that will not wear away.

Very truly yours,



1873-11-22

November 22nd. 3

James Harris, Esq. Secty.

Bellefonte, Pa.

Dear Sir:-

I have your letter of yesterday's date, together with plan of building. The size of building you give us is 28 x 70. The size of building we have allowed for is 20 x 40. The extra amount telegraphed to Mr. Shaw for which we increased the 500 light plant to 600 lights <sup>was</sup> entirely approximate, and on <sup>revising</sup> ~~revising~~ it we find that we can erect a brick building for you of 20 x 40, instead of the frame building, as called for in the estimate. <sup>above</sup> We had no idea when Mr. Shaw telegraphed for the additional estimate that he proposed to close a contract on the basis of it, or we should have written a letter reducing it by several hundred dollars. We cannot put a building up of the size that you name for the price given in our estimate. We understood from Mr. Shaw that this whole matter was settled, and that our plans and estimates were accepted, and we have consequently instructed our Superintendent, Mr. Rich, to build the building 20 x 40, and have this day telegraphed him to construct a brick building instead of a frame building. The building is so arranged that at any time it may be thought advisable to increase your plant it can be done



1883-11-22

2

by enlarging the building economically.

Mr Rich is now in Bellefonte and will no doubt see you about these various matters, but his instructions to put up a building 20 x 40 are absolute, and if you require any alterations, I would request you to advise me of it immediately, but I would warn you that if such alteration is requisite it will very materially interfere with the installation of the plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

1893-11-22

November 22nd. 1893.

Davenport, Treney & Co.

Jersey City, N. J.

Dear Sirs:-

Referring to my interview with your Mr. Davenport this A. M., I beg to inform you that our Superintendent, Mr. Saldan, will call on you and give you an order for one zinc base as a sample. I wish to get at the quality of the metal, how we can work it and its tensile strength. After we have worked your castings in our shop, we will then settle about giving you an order. I am compelled to pursue this course of a bid I have from the man who is now making our zinc bases.

Very truly yours,

The Edison Machine Works,

By 

Very truly yours,

November 23rd.

3

S. Elliott, Esq.

Designer & Builder of Special machinery.

Newton, Mass.

Dear Sir:-

I have your favor of the 17th. inst. Mr. Jackson worked for me a year or more, and I believe him to be a thoroughly first class mechanic, and especially good on experimental work. He is possibly rather proud of his ability, perhaps too much so, but still I found it very easy to get along with him. I always found him sober and reliable.

Very truly yours,

*Jas*  
*I*

1883-11-20

November 22nd. 83

Thomas P. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Dear Sir:-

Will you kindly ask Mr. Floyd if he would undertake wiring jobs at Mt. Carmel and Bellefonte, providing we can get the work for him. We might find it convenient to use his men at those places, <sup>please</sup> providing he is willing to give attention to the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1893-11-22

November 22nd. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Your favor of the 18th. inst. came duly to hand.

We cannot understand that there should be trouble with either the marine glue or sulphate of zinc, as we order exactly what is used at the Central Station. We are, however, arranging to have the sulphate of zinc tested by Crower at Goerck Street, and with relation to the marine glue, Mr. Chinnock has promised to ship some to you. I note what you say about clear glass bottles and will attend to it in the future. I will have the fixtures you refer to sent on. I will hurry the various material you ask for and I can assure you that we invariably do this anyway.

Very truly yours,

Thos. A. Edison Constr. Dept.

By



1883-11-22

Personal.

November 22nd, 83

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I wish you would pay particular attention to the movements of Leonard. Judging from the postmark on his letters he must spend a good deal of time on Boston. Certainly after you leave Lawrence he should stay there at nights and in the day time. The fact is I do not feel very much confidence in him, and I want to know whether I am justified in my opinion or not.

Very truly yours,

89

1883-11-22

November 22nd.

W. D. Rich, Esq.

Dash House,

Hellefonte, Penna.

Dear Sir:-

I beg to enclose you letter from Messrs. James Harris & Co. giving prices of material at Hellefonte.

I telegraphed you this A. M. instructing you to put up a brick building in place of the frame building originally contemplated at Hellefonte. I also enclose you a blue print of the Hellefonte station.

I have a letter from James Harris, the Secretary of the Hellefonte Company this morning, in which he mildly suggests that we put up a brick building 20 X 70 for the same price as the one we proposed putting up. I have written him that it was my understanding that the estimate and arrangement of the station had been accepted, and that you were instructed to put up the building 20 X 40, and I have suggested that he should see you about the matter. What they want to get is an alleyway down the side of their property. This you can arrange by having the front of the building 20 feet. Of course if Mr. Harris objects to putting up the present building, you had better telegraph for instructions.

1883-11-22

2

I am going to send a wireman to Tiffin Saturday or Sunday night. All your material is ordered and well under way.

The Fall River steam piping was shipped from Philadelphia yesterday

I wired you this A. M. stating that there was trouble at Brockton, owing to the leakage of steam piping at the joints.

I trust you will be able to send someone to fix this prior to your return East.

If you propose coming to New York on your way from Penna. I will meet you at the office anytime except Saturday evening.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

Enclosure.



1973-11-22

November 22nd. 3

John T. Perry, Esq.

care Edison Electric Illg. Co.

Lawrence, Mass.

Dear Sir:-

I beg to advise you that from this date you will be credited with a salary at the rate of \$125 per week, and that should we require you to leave Lawrence to go elsewhere, we will pay your travelling expenses. As soon as you become more valuable in our work we shall hope to pay you better, but meantime the salary named above will cover your expenses of boarding, and inasmuch as we pay your travelling expenses, you will no longer be under any personal expense, which you were under in learning our work. Hoping this will prove satisfactory to you, I remain,

Very truly yours,

Thos. A. Edison Constn. Dept.

By 

1883-11-22

November 22nd.

3

Societe Industrielle et Commerciale Edison,  
Ivry-sur-Seine, France.

Dear Sirs:-

Referring to your favor of the 12th. October, I beg to  
give you below prices of the various Arrington & Sims engines  
purchased by us:-

1	14 2 x 13 engine with two 30"	
	driving pulleys.....	\$ 1,950.00
1	14 2 x 13 engine without pulleys.	1,750.00
	13 x 13 engine.....	1,900.00
1	U 2 x 10 engine.....	775.00
1	G 2 x 8 engine.....	530.00

I presume the ten per cent royalty should be paid on the  
prices named.

Very truly yours,

*Edison*

1773-11-22

November 22nd; 3

George W. Soren, Esq.

care Porter, Lowrey, Soren & Stone,

3 Broad Street, City.

Dear Sir:-

I beg to enclose you herewith check for \$381.03, being  
balance of the amount due Judge Porter, Mr. Stone and yourself in  
connection with the sale of the Colonial Light Patents to Edison's  
Indian & Colonial Electric Company.

Will you please acknowledge receipt, and oblige,

Very truly yours,

A handwritten signature, possibly "S. J.", is written over the closing "Very truly yours,".

1883-11-22

November 22nd. 3

F. J. Sprague, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Dear Sir:-

I have your favor of the 18th. inst., for which accept my thanks.

I think you will find that in other stations arrangements have been made to put the indicators as far away from the dynamos as possible.

Your remarks about steam piping shall have the attention of Mr. Rich.

With relation to Fall River, we have work ~~xxxx~~ for you here in New York, when you get through at Brockton, in which you can be more valuable to us than at Fall River. We regret not being able to comply with your request in this connection.

We will send you the information about the spare dynamos in a day or two. It will, however, be some little time before the Brockton Company can get small machines.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1893-11-22

November 22nd, 3

I. W. Serrall, Esq.

140 Nassau Street, City.

Dear Sir:-

I have your favor of the 15th. inst., and in reply beg to state that I do not see that it is necessary to add anything to the arguments in interferences A to I and No.1. The argument seems to cover everything and to be quite full enough.

Very truly yours,

*Jas*  
*I*

1893-11-22

November 22nd. 3

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

I have your favor of the 17th. inst., but I have been unable to answer it until this morning, as I was not at all sure when I should be able to ship the machines to you. I am hoping now to be able to ship the machines sometime next week. I fully recognize the importance of your having them and I will not keep you waiting one moment longer than I can help.

Very truly yours,

Thos. A. Edison Constn. Dept.

By 

1883-11-22

November 22nd. 3

R. N. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 10th. inst., I have answered you elsewhere stating that I hope to be able to send you the machines for your central station sometime next week.

The 200 and 300 light machines which you require for isolated business you can have about ten days or two weeks after the machines are sent you for your central station.

Very truly yours,

Thos. A. Edison Constn. Dept.

By



1893-11-23

Menlo Park - Gen.

November 23rd.

3

N. Stilwell, Esq.

Menlo Park, N. J.

Dear Sir:-

Will you please have the doors of the office, laboratory, machine shops and other buildings, which it is not absolutely necessary to have access to, nailed up, and a fresh lock put on the doors that it is necessary to use. I should think the simplest way to do is to have the same lock put on all the doors you require to open, and have one key to open the whole of them.

However, this is a matter you can decide yourself.

While Alfred Swanson is working for us, he is entitled to have access to the laboratory, machine shop and engine room, but after he gets through his work of course he should give up the key. Perhaps the better would be for you to open the door for him every day and lock it up at night, but this is a matter on which you can suit your own convenience. What we wish to accomplish is to prevent all unauthorized people from getting into the laboratory.

Yours truly,





1873-11-23

November 23rd.

3

Messrs. Bergmann & Co.

252 Avenue B, City.

Dear Sirs:-

Will you please have a test made of the battery cell  
that we sent down to you sometime ago.

I enclose you patent. Please return the patent with  
report as to test. We want this immediately.

Yours truly,



Enclosure.

1883-11-23

Battery, St.

November 23rd. 3

A. A. Cowles, Esq.

19 Cliff Street, City.

Dear Sir:-

I am promised a test of the battery in the course of a day or so, and will send it down to you immediately we get it.

Very truly yours,

SP

1883-11-23

*Sunbury*

November 23rd. 3

Frank S. Marr, Esq. Treas.

Edison Elec. Illuminating Co.

Sunbury, Penna.

Dear Sir:-

Referring to your favor of the 18th. inst., I beg to return you herewith the plan of Sunbury indicating where you want the extension of your lines made. Will you please mark on the plan the maximum number of lights for use on this extension and their position, so that we can calculate what size the conductors should be.

Do I understand that you are wanting some of the new kind of wire. If so, I will send it to you, as I have some in stock.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-23

November 23rd. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

Since writing to you this morning your letter of the 15th. has come before us. It has been mislaid and we must apologize for the apparent neglect in not replying to you before.

The price of the new form of cable is forty two cents a pound. I have quite some of it in stock, which I ordered in order to get the first lot made. We are getting excellent results from it, and think it is the best thing you can use. If you will give us some idea of the size of the wire you want, we can then send you sufficient cable for your purpose.

Again apologizing to you for our neglect yours above referred to, we remain,

Very truly yours,

Thomas A. Edison Constrn. Dept.

By



1883-11-23

November 23rd. 3

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

When I was in Brockton I arranged with you to have a photograph made of the building. Has this been done? If not, when will it be done?

Very truly yours,

A handwritten signature, possibly reading "S. J.", is written in dark ink.

1883-11-23

November 23rd, '83

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

I send you herewith duplicate blue prints of the stations at Bellefonte, Mt. Carmel, Hazleton and Tiffin, and shall be glad if you will sketch on same the disposition of the switches &c., as suggested in yours of the 22nd. For the future I will send two copies of blue prints of the central stations.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-11-23

November 23rd, 3

Spencer Borden, Esq.

Boston, Mass.

Dear Sir:-

Referring to your favor of the 21st. inst., we are very much surprised that you should have altered our estimate for Natick. If you have no objection we would prefer that you should leave us this privilege. We consider that the Norwich estimate is complete in itself and does not require any alteration. There is a margin of engine capacity and a margin in the dynamos, we do not think it at all necessary to put in a spare.

You must remember that we are putting for a 1,000 light plant exactly the same engine that we use for the 1,000, and we also send to the station extra parts of such machinery that it is possible will break down. We do not think that we should leave it to the local people to say what they want in the way of a plant. We consider our experience in this connection a great deal better than theirs.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-11-23

November 23rd. 3

Judge J. W. Dunn,

Tiffin, Ohio.

Dear Sir:-

We have your favor of the 19th. inst.

Our material for wiring has been shipped to-day, and our  
Mr Isaac Walker, who has charge of the inside wiring, will be in  
Tiffin in all probability Tuesday or Wednesday next to start the  
work there. We think that you will find that that will be in  
plenty of time for the starting of the station.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 



November 23rd. 3

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 21st. inst, and will take  
your advice and keep a supply of chemicals on hand.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-23

November 23rd. 3

A. Stuart, Esq. Secty.  
Cincinnati, Ohio.

Dear Sir:-

Referring to your favor of the 18th. inst., I certainly think that efforts should be made to put plants in some of the towns already canvassed, before anything is done with relation to canvassing other towns. The expense of the work is considerable and I should not care to go ahead making any more canvasses unless Major Eaton instructs me to do so.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1853-11-23

November 23rd. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

I do not at all like your Rondout-Kingston scheme.

I do not think that we have got far enough ahead to follow it out.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-11-23

November 23rd. 3.

C. E. Chinneck, Esq.

257 Pearl Street, City.

My Dear Chinneck:-

This will introduce to you Mr. A. S. Bovis, who wants to get as much information as possible in the course of a few days at the Central Station. Mr. Bovis is going out for us in connection with our central station construction work, and any facilities you can give him to post himself will confer a favor upon,

Very truly yours,

A handwritten signature, likely of the sender, written in dark ink. It appears to be a stylized 'S' or 'J' followed by a flourish.

1883-11-24

November 24th. 3

Major S. B. Eaton, President.

65 Fifth Avenue, City.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 2nd. inst. instructing us to make canvasses and estimates for Holyoke and New Bedford, Mass.

We hope to be able to send a canvasser to commence this work within a few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-24

November 24th.

Major S. B. Eaton, Prest.

65 Fifth Avenue, City.

Dear Sir:-

We beg to acknowledge receipt of your favor of the  
23rd. inst. instructing us to canvass the following towns in  
Pennsylvania:-

Wellsborough, Hauch Chunk, Pottsville, Pottstown, Lancaster,  
Lewisburgh, Milton, York, Union City, Wilkesbarre, Scranton.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-24

November 24th. 3

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We are in receipt of a letter from Messrs. Bergmann & Co., in which they quote the following extract from a letter received by them from you:-

"Under contract 250 temporary fixtures, shades, holders and sockets were to be furnished. Only 240 were shipped or received by us."

We have before us at the present moment the statement which was presented to our Mr Insull, when he went to Shamokin to settle our affairs there, and which he was told specified the material received on account of the contract between us, and under the heading of "temporary fixtures" you enter only 200 and give us credit for that number. In your letter to Messrs. Bergmann & Co. you now acknowledge having received 240, and ask for a credit for 10 temporary fixtures, inasmuch as the contract called for 250. We might here state that we hold the receipt of Mr W. H. Douty, the President of your Company, for 350 temporary fixtures, sockets and shades complete, but inasmuch as you have only paid for 200, notwithstanding your statement to Messrs. Bergmann & Co. that you

1883-11-24

2

Received 2240, we cannot understand why it is that you ask us for a credit for 10 more. Although we accepted your statement of the material received as being correct, it would not appear to be the case, judging from the above; in the instance we have quoted we are satisfied that it is not.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

AOY



1883-11-24

November 24th. 3

Messrs. Babcock & Wilcox,

30 Cortlandt Street, City.

Dear Sirs:-

In making shipment of the boilers you have on hand for us at the present time, will you please forward them as follows:-

Hazleton from Elizabethport, via Philadelphia & Reading, Bellefonte, via Pennsylvania R. R.

We have secured special rates over these lines.

Are you putting the names of the different Companies on these boilers, as usual? If you have not done so in the case of the boilers already shipped, will you kindly put the names of the Companies on the boiler you have on hand. For instance, the Bellefonte boiler should bear the name "Edison Electric Illuminating Company of Bellefonte", and the others should have the name of the Company in the same way, according to the town it is intended for.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1893-11-24

November 24th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

In relation to the 14 3 x 38 engine for Newburgh, which will be ready for shipment within a few days, will you please send it to Hazleton, Penna. instead. The Newburgh station will not be ready for some time, and we do not wish to be obliged to store more material in Newburgh than is necessary, and we can use this engine at Hazleton as soon as it is ready. Please send it via the New York & New England, Steamer "Maryland" and Lehigh Valley R. R., as we have secured special rates on this route, which we wish to take advantage of.

We have secured special rates to Bellefonte, Penna. via New York & New England and Penna. R. R., and when you are shipping to that point, please take those routes.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *S. A.*

1883-11-27

November 27th. 3

James Harris, Esq. Secty.

Sellefonte, Pa.

Dear Sir:-

I shall be glad if you will give me an order for  
say 240 lamps, so as to have lamps on hand at starting the station.  
These lamps we shall bill to you at exactly the same price as if  
they were bought from the Lamp Factory direct, namely, 50 cents,  
and the only object I have in asking for the order is so that we  
shall have the right to order lamps forward at such time I may  
find it necessary when they are required.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-27

November 27th. 3

Mr. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

We have your favor of the 23rd. November.

We have put some of the lamps with the wire in the center upon a test at 64 candles, and find that they have just as good life as the regular lamps, which proves that the platinum practically makes no difference.

Bergmann is getting along nicely with the twelve indicators, and we will send some forward to you as soon as they are completed.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-27

November 27

J. H. Andrews, Esq.

Dear Sir:-

Referring to yours of the 22nd. inst. you  
ask by conferring with Mr. Wick himself arrange to have the  
feeders brought into a central station at points suitable to your-  
self. I am taking up the question of channels &c. and am trying  
to make them a little better than they have been.

Very truly yours,

1883-11-27

November 27th. 3

W. S. Andrews, Esq.

Dear Sir:-

Referring to your favor of the 24th.

Rev., I think the object you speak of, namely, being advised of  
the progress of Mr. Rich's work, will be best done by your communi-  
cating with him.

Very truly yours,

1893-11-27

November 27th, 1893

W. S. Andrews, Esq.

Lawrence, Mass.

Dear Sir:-

Referring to your favor of the 22nd. inst. we have talked over with Mr. Edison what your title should be, and would suggest "Chief Electrical Engineer." How does that strike you? It is better than "Electrician". You know electricians are in no great repute with Mr. Edison as a rule.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-27

November 27th.

3

Mr. W. S. Lear.

Sunbury, Pa.

Dear Sir:-

Referring to yours of the 23rd. inst., are there no other lights on the extension you propose putting up besides the 50 mentioned at the end of extension. Shall we only estimate for 150 or calculate our copper so as to carry more lights in the future? If so, state the probable number.

Very truly yours,



1883-11-27

November 27th. 3

H. C. Rollins, Esq. Treas.

Edison Electric Illuminating Co.

Highland National Bank,

Newburgh, N. Y.

Dear Sir:-

We enclose herewith revised plan for the central station building to be erected at Newburgh, and we would impress upon you very strongly the necessity of having the work done in strict accordance with this plan. Any deviation from it, however slight, it may appear to you, may seriously interfere with our arrangements, and we will here say that we will not hold ourselves responsible for any defect in the internal arrangement of the station, should the same be caused from our plans not having been accurately carried out. We write you thus strongly on the subject, as with us it is a vital point, and trusting that you will see that our requirements are met by your contractors, we are,

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

*Indian + Colonial*

*1893-11-28*

November 28th.

3

Major Flood Page, General Manager,

Edison's Indian & Colonial Electric Co.

4 & 6 Throgmorton Avenue,

London, E. C. England.

Dear Sir:-

We have a letter from Messrs. Drexel, Morgan & Co. asking for further documents, and which we have handed to them for transmission to London.

We cabled you yesterday as follows:-

"Tube Company supplied material absolute price contract.

You should remit immediately comply our understanding! Extremely surprised your delay. Will mail details!"

The Tube Company's material was bought by us on an absolute contract, and they are not in the habit of supplying us with ~~an absolute price~~ cost, and it has been our rule to accept their bills right along. Where an absolute figure had been given on a certain amount of work, they accommodated us by giving us a detailed bill, which, as above stated, has been sent forward.

We cannot consider this, however, a sufficient justifi-

Received  
1893-11-28  
1893-11-28  
1893-11-28

1893-11-28

2

ation for your holding your remittance. We bought this material for you, paid for it and shipped it without any profit whatever to ourselves, and solely as a courtesy to you, and hence our request for an immediate remittance.

My Private Secretary, Mr Insull, will be in London about the 20th. December, and will call upon you, and any information you may desire as to our business he will be able to give you.

Very truly yours,

1883-11-28

November 24th. 3

W. H. Doolley Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 24th. inst., I cannot tell whether the small pair of dynamos will be ready by the time you mention or not. Even if they were I think that we should run the large engine. In fact we should run both of them, <sup>alternately</sup> as we should want to get the whole of the plant in good running order before the period is up for us to hand it over to your Company. I cannot see where the great waste of power comes in in running the large engine, and even if such were the case, I would remind you that ~~this~~ is part of our contract to run the station for thirty days, and it can therefore be hardly a matter of interest to your Company whether we have to run the large or small engines during that period. *as the coal consumed will be at our expense*

Very truly yours,

Thomas A. Edison Constn. Dept.

By *SS*

1853-11-28

November 28th. 3

W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

Referring to your favor of the 24th. inst., we beg to state that the books and forms which we propose furnishing have been delayed in consequence of the absence from the city of Col. Coddard, with whom we are very anxious to confer before settling on the final forms. He has promised to go into it at the first opportunity, but as he is going to do it as a favor to us, we of course cannot press him to do so at any time that it might inconvenience him.

I think that the best thing that you can do is to go ahead and use your judgement in the matter, and when we get our forms out we will give you the option of taking them or not.

With relation to Mr. Sprague, I find that I shall require him in New York. When the small dynamos are ready we can send some one, probably from Fall River, to put them up for you.

I cannot give you at the moment the figures as to the proposed exchange, but will do so as early as possible.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1 PF3-11-28

November 28th. 3

G. W. Wilbur, Esq.

Hotel Weinmeister,  
Atlanta, Ga.

Dear Sir:-

We have your favor of the 25th. inst., and are glad to hear of the progress you are making.

I have sent a check to Mr. Magnus V. Miles as requested, and have written to Lyons that if he cares to come on here, I can get him at work. I will advise you later as to where you are to go next.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-25

November 28th. 3

Theodore N. Vail, Esq., General Manager,  
American Bell Telephone Co.  
95 Milk Street,  
Boston, Mass.

Dear Sir:-

I shall be glad if you will send me a specimen of the Inertia Carbon Transmitter you now issue, having the new form of lettering with "Edison Carbon Telephone" across the box. Be kind enough to attach to the transmitter a certificate stating that all your transmitters are now issued in that form.

I wish to use this in London in negotiating with the United Telephone Company, who I am anxious should follow the same course as that adopted by your Company. If you can let me have this before December 8th., I shall feel obliged, as I wish to send it to London by the hand of my Private Secretary, who sails immediately after that date.

Very truly yours,

*J. J.*

1883  
November 20th. 3

"Cashier,"

Germania Bank,

215 Bowery, City.

Dear Sir:-

I enclose you herewith the information requested as to the Edison Electric Light Co., The Edison Co. for Isolated Lighting and the Edison Electric Illuminating Co. of New York.

The Light Co. has a controlling interest in the Isolated Co., owning <sup>51</sup>100 of the Isolated Co's stock. The Light Co. has also a 25 per cent interest in the Illuminating Co.

The paper that we have submitted to you for discount, and which you have kindly obliged us by so doing, was that of the Edison Co. for Isolated Lighting. This Company's business is to install electric light plants in mills and factories, and it obtains its license to do so from the Edison Electric Light Co., which controls it.

The Edison Electric Illuminating Co. of New York supplies light on a meter in the district bordered by Wall, Nassau, Spruce Streets and the East River.

Mr. Edison's relations to these companies is that of manufacturer. He supplies them with dynamo electric machines, lamps



11833-10-28

2

and electrical sundries. Our main customer is the Edison Co. for Isolated Lighting, who take a large amount of material from us right along. The Edison Electric Illuminating Co. has its plant erected, and consequently buys very little from us at the present time. The Edison Electric Light Co. is simply a patent owning organization, who do nothing beyond selling licenses to use their patents, and they also defray the cost of Mr. Edison's experiments in connection with any improvements or inventions he may get up on his present system of electric lighting.

Besides the above Mr. Edison acts as a general contractor for the installation of electric light central station plants.

Our modus operandi is as follows:-

A company formed in some town gets its license from the Edison Electric Light Co., the local company requires a plant erected, in order to enter into the business of selling light, or in other words, to compete with the local gas company for business, and Mr. Edison himself undertakes the contract to erect a plant for such a local company at a given contract price. He does this work by permission of the Edison Electric Light Co., who are the sole owners of the patents.

Any further information that I can give you I shall be glad to or if you care to make an appointment, I will come down to

1883-11-28

3

see you and explain matters further to you, as it is our wish that you should be fully posted in relation to the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-11-28

November 28th. 3

Messrs. Harris & Robinson, Es

Hartford, Conn.

Dear Sirs:-

Referring to your favor of the 20th. inst., I do not  
at all believe in the scheme you propose. My experience is that  
if we depend upon other peoples boilers and engines, our lights  
are not satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

James Harris, Esq. Secty.

Pallefonte, Penna.

Dear Sir:-

We beg to confirm the addition of \$200. agreed upon by yourself and our Mr. Rich to be paid us in consideration of increasing the size of the building. Said payment to be in addition to the amount agreed upon in our contract with you for the erection of your central station plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Attorney.

1583-11-28

November 28th. 3

H. Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your two favors of the 24th. inst., which do not explain to us the reason for your wanting to draw \$100. We asked pointedly for an explanation from you, as we wanted to know whether we were in error in your accounts. Will you please let us know.

We must confess we have your new form the use for which we do not understand. If you have any new forms or anything else new, will you please let your ideas flow in the direction of this office and not to Mr. Jenks or any other manager of local companies. We wish to have the privilege of deciding what is the best form to use, and we are very glad to have any suggestions, but we wish to pass upon them before they are communicated outside.

I send you by this mail a book of "Questions & Answers", which may give you a great deal of information. This book is for your own personal use and is not to be shown to anybody.

I shall be glad to have from you such a report as you gave us from Brockton as to the number of lights burning &c. Please send your answers to the questions here.

Very truly yours,

Wm I

1853-11-28

November 28th. 3

C. P. Lyons, Esq.

Center Street,

Dorchester Station,

Boston, Mass.

Dear Sir:-

Mr. C. W. Wilbur informs me that you would like to have a position as canvasser with us. If you care to come on immediately we can send you out to work.

Very truly yours,

Thomas A. Edison Conatn. Det.

By 

1883-11-28

November 28th. 3

Messrs. Marlio & Hull,

P. O. Lock Box 97,

Detroit, Mich.

Dear Sirs:-

We have your favor of the 27th. inst., and in reply, beg to say that we will see that Battle Creek is canvassed after Grand Haven, and will leave Niles out as suggested.

We have been compelled to withdraw Mr. Cooke from your territory temporarily, but he will return there inside of two weeks.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-28

November 28th, 1883.

W. W. Doolley Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have your favor of the 26th. inst., and very much regret that the second <sup>50</sup>light machine has not been shipped, but we had trouble with the castings, which when delivered to us proved defective and we had to have a new set made. Our Supt. promises now to ship the machine by Saturday or Monday at the latest. The various articles you refer to as missing shall be supplied.

Very truly yours,

The Edison Machine Works,

By





1883-11-28

November 28th.

3

A. A. Cowles, Esq.

10 Cliff Street, City.

My Dear Sir:-

We have had the battery which you sent for test duly tested, and give you below our tester's report:-

Internal resistance, one ohm; strength, 1.18 volts; current, 1.18 amperes. When put on short circuit it runs down very quickly.

Our tester reports that he does not think at all well of the battery.

Very truly yours,

Zak  
J

1883-11-28

November 28th. 1883.

Gustav Söldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

I am getting into very serious trouble indeed at the long delay in connection with the shipment of the 350 light machine for Fall River. I really think that the matter should have been hurried a little more than it has been, and I must insist that this machine ~~must~~ be shipped to Fall River immediately. Unless we are a little more prompt on our shipments we shall get a very bad reputation. It must now be six or seven weeks since I asked that the machine be got ready.

Please ~~let~~ know absolutely by bearer when the machine will leave the shop, as I must telegraph to Fall River this morning.

I may say that the Fall River Company are prevented from lighting a mill and getting a large payment on a big contract in consequence of our delay, and they naturally feel the opposite of satisfied.

Very truly yours,

The Edison Machine Works,

By



1853-11-28

November 28th,

3

U. H. Painter, Esq.

Box 80,

Washington, D. C.

Friend Painter:-

Did you ever get a letter from me asking for a map  
of the United States: Our office is starving for one.

Cannot you manage to get one for us?

Very truly yours,



1893-11-28

November 26th. 3

N. Stilwell, Esq.

Monlo Park, N. J.

Dear Sir:-

Referring to your favor of the 20th, inst., I wired you to let Mr. Claudius have a key of the laboratory. So long as he is at work there as a member of Mr. Clarke's staff, he is entitled to a key.

Very truly yours,

A handwritten signature, possibly 'S. L.', written in dark ink.

1883-11-28

November 26th. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Mr Edison insists that you telegraphed him instructing us to canvass Carlisle, Penna. I have no record of any such telegram in the office, nor do I recollect ever having received one. I have a telegram from you telling us to canvass Wells-borough, and we hope to send a canvasser there Monday or Tuesday at the latest. Will you please let me know at your early convenience whether you telegraphed Mr Edison desiring a canvas made of Carlisle, and if not whether you telegraphed any one else, as he may have heard of it through other channels.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-11-28

November 28th. 3

William Schwanck, Esq. Frost.

Mt. Carmel, Penna.

Dear Sir:-

Referring to your favor of the 26th. inst., I think that it would be very poor policy on the part of your Company to undertake to do any wiring itself. Our experience is that in such cases the local company has a very great deal of trouble with the consumers in collecting their bills, and we find it the best policy to have an outside party do the wiring of houses in the same method in which this is done at Shamokin. I am trying to arrange with Mr. Floyd to do your wiring at Mt. Carmel. I think this would be the most economical thing for you to do. Floyd is the man that does the work at Shamokin. He is within easy reach of Mt. Carmel, and in connection with the Shamokin work should be able to handle the work more economically than a local man at Mt. Carmel could, if you have no objection to the work being done by Floyd, ~~and~~ my only object in suggesting him is as stated above.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1893-11-28

November 28th. 3

W. Stillwell, Esq. .

Menlo Park, N. J.

Dear Sir:-

Mr. Claudius reports that the clock has been removed from the laboratory and taken down to the house at Menlo Park. This clock is the property of the Edison Electric Light Co., and Mr. Claudius is responsible for the same. The clock should be sent back immediately.

Yours truly,

*J. E. Smith*

1883 11-28

November 28th. 3

H. O. Stratton, Esq.

85 Oliver Street,

Boston, Mass.

Dear Sir:-

Referring to your favor of the 27th. inst., I do not know where you can buy the duplicating ink you refer to, but I have some in stock that I am not at present using, and shall be glad to let you have same at cost if you will let me know how much you want.

Very truly yours,

*Sam*  
*I*



1883-11-28

November 28th, 8.

P. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

Please let us know at your convenience how your friend, who is at the Brockton station with you, is posted on our work. Is he capable of taking care of a station? Also has he a sufficient mechanical knowledge to allow of his fitting up the interior of a station? Also please let us know his name and how we can reach him, as we want to see about putting him on our electrical staff. Also what was his experience before he went to Brockton with you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

Will you please arrange to return to New York at the earliest possible moment. You should leave things so that Mr. Jenks can permanently get on without any assistance from us. It is quite time we left them to run things by themselves.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

18F311-28

November 24th,

3

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Dear Sir:-

Referring to your favor of the 23rd. inst., will you please let me have a minute account of your various troubles with the automatic regulator, and I will endeavor to give you a remedy for same.

Very truly yours,

S. A. J.

I have Johnson working on this

1883-11-25

November 24th.

3

Charles Batchelor, Esq.

Laris, Franco.

My Dear Batchelor:-

Will you please let me have an explanation of the enclosed, which appears in the Defect Book for November 24th.

"Extract of letter from Mr. Hennis, at Milan to Mr. Batchelor". Oct. 22, 1883 - "The Armington & Sims engines work badly. We seldom can run a night without changing them off once or twice during the evening. It seems impossible to keep them to the work, and up to now it takes just twice as much oil that a "Porter" does.

We have had another accident with a Porter engine by breaking the crank pin. This makes two pines that we have broken and I find that both pines were defective, and that cracks were in the steel when put up."

Very truly yours,

*W. H. L.*  
*L*

1883-11-28

November 28th, 1883.

George H. Bliss, Esq. General Supt.

Chicago, Ills..

Dear Sir:-

We have your various letters making complaints about defective armatures.

In "I" armature No. 118, A we found a piece of a knife blade sticking between two commutator bars. This certainly was not done in our shop, as it would have been apparent before the armature left the shop, as the armature was tested before we sent it out.

"I" No. 105, A was shipped at a time when we were changing Superintendents, and this may have caused the trouble, as we cannot place on anybody the responsibility of shipping the armature referred to.

Very truly yours,

The Edison Machine Works,

By



1883-11-28

November 28th. 3

C. W. Cooke, Esq.

Post Office,

Williamsport, Penna.

Dear Sir:-

When you get through at Williamsport you are to go to  
Battle Creek, Mich., after that you will probably have to canvass  
Hillsdale, as Messrs. Markle & Hall have decided to drop out  
Hilon, but they will however advise you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-11-28

November 28th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

We desire to put another pulley on the  $1\frac{1}{2} \times 10$  engine  
now at ~~Providence~~ <sup>Providence</sup> so as to enable us to run two machines of one  
half the capacity of the present machine now attached to the engine  
referred to.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



11873 11-29

November 28

G. H. Cook, Esq.

Dear Sir:-

I send you by this mail a map of Williamsport from which you will gather where we propose running our mains in that city. The canvass was made according to the old rules of the Edison Electric Light Company, and is, in our opinion very defective. We want you to make an entirely new canvass of Williamsport and to take more territory extending beyond Academy Street. You must of course be very careful to take in the whole outside where we now propose to run our mains and as much more as possible. This work should be done by you as promptly as possible, and each day you should send forward the result of your previous night's work as we are to plot the canvass as quickly as possible and can do this to better advantage if we have daily reports from you. It is also very important that you should conduct your work without letting the local people know the object of your visit as we propose closing the contract on the old canvass and desire this new canvass made for our own information. The importance of getting through this work rapidly you will recognize when I tell you that we expect to close the Williamsport contract on Monday next and start our work there, whereas we will



1883-11-29

be unable to order our copper until we have completed the canvass  
that you are about making and shall have made a new determination  
on the basis of same.

Very truly yours

Thomas A. Edison, Construction Department,

NY

1813-11-30

November 30th. 3

E. H. Johnson, Esq.

202 Avenue E, City.

My Dear Johnson:-

I wish you would look into the trouble with the automatic regulator, with relation to which you will find several items from Chicago in Defect Book, 24th, November. If you will give your immediate attention to this matter you will oblige,

Very truly yours,

A handwritten signature in dark ink, appearing to be 'S. L.' or similar, written in a cursive style.

El. 24.-  
Italy

1873-11-30

November 30th.

Comitato per le applicazioni Dell' elettricità sistema Edison in  
Italia

Milano, Italy.

Gentlemen:-

Referring to your favor of October 4th., we beg to  
enclose you copy of a letter which we have just received from  
Messrs Bergmann & Co. The statements contained therein are  
perfectly correct and your request for a reduction in the price  
of not less than 50 per cent is very unreasonable. If sockets  
were sent you from Bergmann & Co. such as you send a sample of  
it was an error which could be rectified by allowing you, as Berg-  
mann & Co. suggest, the difference between the price of the two  
sockets, namely, 10 cents. Those sent you were not roughly made  
but simply a socket which we use for factory work. We cannot un-  
derstand how there can be so much ~~trouble with~~ <sup>trouble with</sup> them inasmuch as  
we are using the same socket here right along. The information  
you ask regarding other matters has been sent forward to you and  
the various material requisitioned for by you has all been ordered.  
My private secretary, Mr. Insull, is going to Europe early in Dec-

2nd

1893-11-30

November 30th, 3

Messrs. Markle & Hall,

P. O. Box 97,

Detroit, Mich.

Dear Sirs:-

Your favor of the 28th, inst. was received this morning. We will send Mr. Cooke or another canvasser back into your territory within the next few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-1430

November 26th.

4

John P. Rogers, Esq.

Boston, Mass.

Dear Sir:-

Referring to your favor of the 26th. inst., if you will give me the name of a stationer in Boston who would carry a stock of duplicating ink, I would arrange with him to supply it.

Very truly yours,

*Sab*  
*L*

1893-11-30

November 30th.

A. Stuart, Esq.

Dear Sir:-

Referring to your favor of the 24th, ~~we~~  
have only just got your map of ~~KKKKKKKK~~ Chillicothe finished.  
I now send you same by this mail under separate cover and shall  
be glad if you will get me central station lots within the area  
marked. I shall also be glad if you will have the enclosed spe-  
cial report filled up and returned at the earliest possible mom-  
ent. I do not think that this town would stand more than an  
800 light plant. If you will return the map with central station  
lots indicated and also the special report, I will push through  
an estimate in the shortest possible time.

Very truly yours,

Thomas A. Nelson, Construction Department.

97



Nov 30 1111

November 30th.

S. J. Hammer, Esq.

Leipziger Strasse 93

Berlin, Germany.

Dear Sir:-

Your favor without date came to hand yesterday. I will answer it at length within a day or so. My Secretary, Mr. Insull, will be in London the latter end of December. He hopes to get to Berlin and will try to do some business with your company. Will you please advise him of your movements. His address in London will be

S. Insull, Jr.

21 Burton Crescent,

London, W. C.

England.

He will probably arrive there about the 20th. of December.

Very truly yours,

*J. A. S.*



1853-11-30

November 30

Messrs Hermann & Co.

Gentlemen:-

We have a telegram from Mr. Walker at Tiffin in which he says that you have quoted 15 per cent to a Church Committee at Tiffin as the discount on fixtures whereas Mr. Shaw told the Committee that your discount was 12 1/2 per cent. Mr. Walker asks us which is correct and I have wired him that the discount quoted by you is correct. Is it not possible for you to allow more than 15 per cent on a good order for fixtures?

Very truly yours,

Thomas A. Falson, Construction Department,

by



1883-11-30

November 30th.

V. R. Upton, Esq.

Dear Sir:-

I beg to enclose you letter from Compagnie Continentale Edison. Mr. Edison has requested me to take this matter in hand and whilst in Paris to open a negotiation with the Compagnie Continentale on the following basis:

We to have the right to sell lamps to any of their licensees at such prices as we may ourselves desire to quote to them but to pay the Compagnie Continentale a royalty of one cent a lamp on all lamps so sold. The Compagnie Continentale to undertake not to sell lamps outside of their territory. This applies particularly to England. Will you please let me have your views on this subject in writing, as it is an important matter and I wish to be in perfect accord with you in anything I may do in Paris.

Very truly yours,

A handwritten signature, likely of Thomas Edison, written in dark ink. The signature is stylized and appears to be 'Edison'.

1883-11-30

Nov. 30th.

A. Stuart, Esq. Secy.

Dear Sir:-

Referring to your favor of the 21st. inst. we found on Mr. Inghill's return to New York that we had already made 11 determinations in order to get the contract for Tiffin so we thought we could give Tiffin a little rest, and that is the reason you have not had any further determination. I return you herewith Mr. Dunn's letter with some personal notes of Mr. Edison thereon which will give you the data on which to reply to that gentleman. With relation to lighting the streets of Cynthania this would be dealt with in precisely the same manner as lighting the houses. If our mains ran through the streets we would just make a connection to a fixture on a pole, but inasmuch as our mains as a rule run through the alleys we should be compelled to put up special pole lines which would really represent so much inside wiring. If street lights are required it should be so indicated on the Cynthania map when it is returned to us so that we can allow for the main carrying them in making our determination. We would not include in our estimate the running of pole lines <sup>extra for street lighting.</sup> unless you so desire. We could however make a supplementary estimate to cover this point. It certainly would

1883-11-30

2

make considerable difference in the estimate but how much I cannot tell until we get the above data from you. Our method is to calculate our mains to carry a certain amount of current to supply lights in the residences. If they are to supply lights in the streets as well they must carry so much more current. Where our mains run through the main streets we would attach our lamps to the same as above stated. Where they do not we should have to run special poles.

Very truly yours,

Thomas A. Edison, Construction Department.

by



1883-11-30

November 30

A. Stuart, Esq.

Dear Sir:-

Referring to your favor of the 26th. inst. your statement which you send us does not agree with that furnished by Mr. Dyor. Have written to New Orleans to him asking him to check your statement, and if he has made a mistake in the statement rendered to us by <sup>you</sup> ~~him~~ we will immediately honor your check for \$100.

Very truly yours,

Thomas A. Edison, Construction Department.

by



1883-11-30

November 30th.

3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Messrs. Phelps, Dodge & Co. are very anxious to have about fifty lights installed in their office.

Will you please investigate their lamp hours and advise me as to the matter, as I should like to oblige them in compliance with the request of my friend Mr. Cowles, of the Ansonia Brass & Copper Co. Probably you could give them a less number of lights than they ask for, which lights would yield a good average lamp hours.

Very truly yours,

*Jac*

1883-12-01

December 1st, 1883.

Messrs. Macpherson, Willard & Co.

Bordentown, N. J.

Dear Sirs:-

I wired you yesterday that your forgings were made of poor iron in consequence of a complaint received from Mr Soldan, our superintendent. We left the Bridgeport Forge people and ordered our material from you mainly on account of the Bridgeport iron being somewhat poor. As the prices from each of you are practically the same, I would suggest that you see Mr Soldan the next time you are in town and then come up and see me about the matter.

I am fully aware that the orders you have in hand were only received on the 23rd. November, but if you can hurry them you will greatly favor us.

Very truly yours,

The Edison Machine Works,

By 

1883-12-1  
Middletown

December 1st. 3

H. N. Hoffmann, Esq. Frost.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have the pleasure to acknowledge receipt of your favor of the 28th; also, enclosing contract for the erection of a central station plant at Middletown, Ohio for 500 lights, contract amounting to \$18,900.31

We return you herewith the contract, which you will notice is signed "The Edison Electric Illuminating Company of

". The name Middletown should be filled in and the seal of the Company attached.

We also send you herewith a duplicate copy of the contract duly executed by us.

Under same cover we received your draft on the United States Bank of New York for \$2,100. and draft on Francis R. Upton for \$1,342.33 We will send you a receipt for these remittances as soon as Mr. Upton accepts his draft.

We would be glad to receive a list of the stockholders of the Middletown Company, so as to give us an opportunity of inquiring into its stability and financial standing. This will be



1883-12-01

Construction, Ohio.  
Ohio Edison Electric Installation Co.  
fact. per contract. H. H.

1883-12-01

December 1st.

2

unnecessary, however, if you will give us an undertaking that your Installation Company guarantees the contract with the Middletown Company.

Our understanding with Mr. Stuart was that these contracts were to be made with the Installation company itself and not with the local companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

Sl

Enclosure.

Sl

1883-12-03

December 3rd. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

I enclose you herewith three notes dated the 12th. November, one for \$4,938.10 due March 15th., another for \$4,983.30 due April 15th. and another for \$3,007.73 due May 15th. in settlement of the open account with you as arranged.

Will you please acknowledge receipt and oblige,

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-03

December 3rd.

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We send you by express half dozen copies of the  
Engine and Boiler questions.

Any engineers applying for a position should answer  
these questions, and you should see that they do this while you  
are present. Do not allow them to take the questions home, as  
we do not want them to have any outside assistance in answering  
our questions.

Very truly yours,

Thomas A. Edison. Consb. Dept.

By



1883-12-03

December 3rd.

8

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have decided that hereafter we will pick the resistance lamps used in the test banks. The volts may be low, but as you propose to have the banks separate from the line, just to afford a load for testing, this will not matter. We can tune the candle power down with a field resistance. Have you any objections to this course?

Very truly yours,

Thomas A. Edison Const. Dept.

By



1883-12-03

December 3rd. - 3

H. H. Hoffmann, Esq. Pres.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

Again referring to your favor of November 24th., we  
beg to acknowledge receipt of \$3,422.33, being twentyfive per cent  
of the contract between the Edison Electric Illuminating Company of  
Middletown and myself and dated, said contract being for the  
installation of a 500 ~~Watts~~ Incandescent Light plant at Middletown  
Ohio.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



December 3rd,

3

George M. Hopkins, Esq.

117 Temple Court,

City.

My dear Sir:-

I have your favor of the 1st. inst., and in reply beg to ~~assure~~ state that the trouble is I have an arrangement with Mr. R. N. Dyer, who has his office here, which arrangement I am bound to hold to. I will see what I can do to bring you into some of our law cases, and it would not be a bad idea for you to remind me of the matter from time to time.

Very truly yours,

*W. H. L.*

1883-12-03

December 3rd,

3

J. C. Reiff, Esq.

care Voorishoffer & Co.

31 Exchange Place, City.

My Dear Reiff:-

Referring to your favor with relation to the Sey-  
fort suit, I think the best way is to postpone the matter just as  
long as possible, in fact carry out the same policy that has been  
carried out right along, meantime see what kind of a settlement  
can be made.

Very truly yours,

*Geo. I*

1883-12-03

December 8rd,

3

J. C. Roiff, Esq.

cara Weorishoffer & Co.

54 Exchange Place, City.

My Dear Roiff:-

I have your favor of the 1st.

The trouble with you is when you undertake to do a thing you never follow it up or come to see me to find out what progress is being made. I should think that instead of waiting patiently <sup>to hear</sup> from me that you would come up here and see me. The next time you are passing you had better look me up and we will talk the matter over. I have no idea of breaking any promises to anybody.

Very truly yours,

Zak



1873-12-03

December 3rd.

Messrs. Armington & Sims Co.

Providence, R. I.

Dear Sir:-

We have your account of November 30th., handed to us by Mr. Moore,

We have no bills for the items of the 27th. and 28th. October of \$4. each. With relation to the item of November 3rd., \$0.47, for man sent to Brockton, we hardly think that this expense is chargeable to us, and have therefore abstained from crediting your account until we hear further from you. As to the charge for engines sent to Shamokin \$775., as we wrote you, we do not think that you should charge us with this engine until it is clearly established that the troubles at Shamokin were our fault or the fault of our men. It so happens that the engine has never yet reached Shamokin.

Deducting these various amounts there remains a balance of \$7,502.80, for which we enclose two notes dated respectively the 12th. and 25th. November for \$4,761.48 each. These notes fall due on the 15th. and 31st. February. Trusting that these arrangements will prove satisfactory, and requesting you to return the enclosed vouchers signed, we beg to remain,

Very truly yours,



1883-12-03

December 3rd. 3

Isaac Walker, Esq.

care Judge J. F. Bunn,  
Tiffin, Ohio.

Dear Sir:-

We received the enclosed letter from Mr. Bunn this morning. Please return it after perusal.

You will, as he suggests, use the paragon cable wherever possible, providing the customers are willing that it be used.

We have a note referred to us by Messrs. Bergmann & Co. in relation to more material asked for by you. All your communications as to business matters should be addressed to this office, and anything you require we will send on to you, but you must not send your orders to Messrs. Bergmann & Co., as they simply refer your communications to us and we have to send them a requisition instructing them to fill your orders.

We should also like to receive from you a report as to what you are doing at least two or three times a week.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-04

December 4th. 3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

The two spare machines which you have asked for will be shipped from here on Wednesday. You will require a 48" driving pulley on each side of your <sup>1</sup> 2 x 10 engine and it should be set to run at 325 revolutions. Do you propose to have the necessary alterations to the <sup>1</sup> 2 x 10 engine made yourself or do you want us to take charge of it? Please let us know at the earliest possible moment, as we wish to have the machines running for you as quickly as possible, also give us an order to cover the necessary regulators, switches and electrical work.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th. 1883.

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We enclose you herewith blue prints of sketches which the Construction Department set up for use in their central station work. The 200 light machine runs at 1,300 revolutions and the 300 light machine runs at 1,200. We also enclose you statement of the speed &c. of each machine we now make.

We will have the brushes you ask for sent forward in the course of a few days.

Very truly yours,

The Edison Machine Works,

By 

Enclosure.

1883-12.04

December 4th.

3

Messrs. Barlow & Hall,

P. O. Box 27,

Detroit, Mich.

Dear Sirs:-

Yours of the 1st. inst. to hand.

Our Mr. Cooke leaves Williamsport for Battle Creek either  
to-day or to-morrow morning. Trusting that this will <sup>prove</sup> sat-  
isfactory to you, we are,

Very truly yours,

Thomas A. Edison Condn. Dept.

By



1883-12-04

December 4th. 3

Frank Maion, Esq.

care Worcester C. West Co.

Worcester, Mass.

Dear Sir:-

We have your favor of the 30th, ult., and in reply would suggest that you go to Fall River, when you have time within the next week or so, and call on our Mr. Andrews and have a talk with him. On receipt of his report in relation to the matter we shall then be able to inform you whether we can offer you a position. If we do so, your remuneration to start with would be very low, as it would be sometime before your services would be of any great value to us.

Mr. Andrews' address is W. S. Andrews, care Edison Electric Illuminating Co., Fall River, Mass.

Very truly yours,

Thomas A. Edison Constn, Dept.

By 

1883-12 04

December 4th.

3

U. N. Painter, Esq.

Box 88,

Washington, D. C.

Friend Painter:-

The maj of the United States came to hand yesterday. I am very much obliged to you for same.

I cannot find that letter which you state was written to you. Johnson says you only thought it was written to you, and he informed me that when he hunted for it he could not find it either.

Very truly yours,

1883-12-04

December 4th.

3

Messrs. J. P. Rogers, & Co.

63 India Square,

Boston, Mass.

Dear Sir:-

I have your favor of December 1st., and in reply beg  
to state that I will communicate with Messrs. Cotton & Guild in  
relation to the ink.

Very truly yours,

Zak  
J



1883-12-04

December 4th. 3

W. C. Smith, Esq.

Foreman of Construction,

Rapid Telegraph Co.,

151 Broadway, City.

Dear Sir:-

I shall be glad to see you if you are inclined to take a position with me in connection with the erection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-04

December 4th.

3

William Schwenk, Esq. Prost.  
Mt. Carmel, Penna.

Dear Sir:-

We have your favor of December 1st., and regret very much that "all the parties here are disgusted with the management". We are doing all we can to push the work, and the material, the supply of which we absolutely control, has gone forward. Certain things we have to get from outside parties are being pushed as quickly as possible.

You can purchase all necessary material for wirework from Messrs. Hergmann & Co., 203 Avenue B, New York. I think, however, the best way would be for you to limit an amount you desire sent and order it through me, and I would be careful to see you got exactly what you wanted and at the proper prices. I am of the opinion that you would be far better served if you got Floyd of Shimukin to do your wiring, in which case he would supply his own material, as he carries a stock of it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1783-12-04

December 4th. 83

J. S. Andrews, Esq.

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We enclose you herewith letter from Frank Maies of  
Worcester, Mass. We have informed this gentleman that he had  
better call on you at Fall River and have a talk with you in  
relation to what he wants. If he does so, will you please let us  
hear from you as to the matter, and if he is likely to turn out a  
good man we might start him as the rest of the novices in our  
business.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-04.

December 4th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

The spare machines will be shipped to Lawrence by Wednesday at the latest. When you go there to put them up will you please keep an exact time it takes on the machines used, as these are extra and outside of our contract and we have to charge them for it. Are the foundations all ready and has the Lawrence Company had their 6" x 10 engine altered, so as to carry a driving pulley on each end of the shaft. I have written to Mr. Ford about this matter by to-night's mail.

Very truly yours,

Thomas A. Edison Constn. Dept.

by



1883-12-04

December 4th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Please let us know as early as possible when your station will be ready to start up at Fall River, as I think Mr Edison will go up to start it, and I accordingly would like to know, so that he can be prepared at the time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1783-12-04.

December 4th. 3

The Arrington & Sims Co.

Providence, R. I.

Dear Sirs:-

You will notice that we have sent you in a number of orders for single engines, that is we propose running them in small stations without a spare. I spoke to your Mr. Sims sometime ago as to what extra parts should be sent with those engines, so as to enable our men to remedy a breakdown quickly. Will you please let me have by return a list of the extra parts that you think should go with the 9 2 x 12<sup>1</sup> and the 14 2 x 13<sup>1</sup> engines, where they are put in a station by themselves. Kindly attend to this matter immediately, as I wish to settle on our policy in this connection before I sail for Europe.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We beg to inform you that we have received a telegram from Mr. Rich stating that the Tiffin station will be ready for wiring in two weeks.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th.

W. S. Andrews, Esq.

P. O. Box 533,

Fall River, Mass.

Dear Sir:-

We want to get up a small book of examples of wiring in placing lights and safety plugs. The examples should be made to scale approximately. Will you please collect them as you have leisure and give sizes of wire used. I send you two rough copies of book giving sizes of wire, one for services on three wire system and one for services and inside wiring on two wire system, both have one per cent drop. I will send you to-morrow one for two wire system with two per cent drop. You will notice that the lamps are all supposed to be placed at the extremities. Of course this is so with services but not so with inside wiring, but I think it best to have a surplus of wire services. I think you should not have but one per cent drop, but the inside wiring can stand two per cent, especially as it will not work bad, owing to the disposition of the lamps.

Very truly yours,

Thomas A. Edison Constn. Dept.

By





1883-12-04

December 4th.

Messrs. Eimer & Amend,

303 Third Avenue, City.

Dear Sirs:-

We have complaints that the meter bottles which you sent out for us have iron in them in the form of iron scales. This renders them absolutely useless for our purpose, as the acid solution which we put in the bottle of <sup>necessity</sup> ~~acid~~ takes up the iron. Will you please rectify this in future.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-04

December 4th. 3

James Harris, Esq. Secty.

Bellefonte, Penna.

Dear Sir:-

I give you below prices of the various lamps made:-

10 candle lamps.....\$ .50

10 candle lamps.....<sup>25</sup>.40

32 candle lamps......60

50 candle lamps..... 1.00

100 candle lamps..... 1.50, Box, and packing added.

The 10 candle lamp, although apparently higher priced than the 10 candle lamp, as a matter of fact is more durable and is more ~~economical~~ <sup>economical</sup> and better suited to the consumer and takes the place of a gas jet. If the 10 candle lamp is used extensively the bills of your consumers will be 10 higher than their gas bills, estimating that you sell it at the same price as gas. In fact we look upon the 10 candle lamp as the

Very truly yours,

Thomas A. Edison Constn. Dept.

By

1873-12-04

December 4th, 3

A. J. Brown, Esq.

Foreman of Construction,

Western Union Telegraph Co.

103 Broadway, City.

Dear Sir:-

I shall be glad to see you if you are inclined to take  
a position with me in connection with the erection of electric  
light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-04

December 4th.

Messrs. Bergmann & Co.

322 Avenue N, City.

Dear Sirs:-

I notice in the supplement of your catalogue that you mention the various articles got up for the Construction Department. As the greater number of these things are made for use in connection with our work and the experience which results from their being made costs this Department quite a good deal of money, I think that you should arrange your prices so ~~xxx~~ as to let us have the various articles we order at better rates than you sell to other customers, say an extra discount of fifteen per cent.

Will you please let me have your views on the subject.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1893-12-04

December 4th. 3

Messrs. Bergmann & Co.

203 Avenue B, City.

Dear Sirs:-

We have very serious complaints from Fall River of the non-arrival there of the material ordered from you for fixing up the central station. We have four men there who are unable to work, owing to your not shipping our goods promptly. This delay in a station of any size causes us a loss of from \$20. to \$25. a day, besides keeping us out of our money for our work considerably longer than would be the case if you would ship promptly. It seems to me very strange that you cannot get out a few switches in less time than we can have boilers shipped, steam piping made, engines built and dynamos constructed.

Cannot you give me an absolute date at which you can ship our orders for Fall River, Tiffin, Mt. Carmel, Hazelton, Bellefonte, ~~Hazleton and Tiffin~~. The goods should go forward in the order mentioned. We impressed upon you when giving the orders for these stations that it was necessary that the safety catches for pole line work should be shipped immediately. <sup>Especially Tiffin</sup> It is now twelve or thirteen days since you received the orders and we have no notification of shipment, and we have three men who are waiting to use these safety catches. I am very much afraid that we shall

1883-12-04

2

have nearly \$250,000. worth of work to carry upwards of thirty days longer than we ought to, unless you ~~were to~~ ship to us more promptly. If you are pressed why cannot you arrange to put some one else back, as ours is certainly the most important, as the amounts involved in our contracts are so much higher than the Isolated Company or any of the Illuminating Companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th. 3

Messrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

We have your extremely pleasant letter of the 1st.  
December.

If you do not know who Mr. Shaw is, considering the time  
he has been in our business, I think it about time you do.  
He is the State Manager for the Edison Electric Light in Penna.,  
and has some connection with the Ohio Installation Company.  
It is not our business to communicate with Mr. Shaw and tell him  
what he should do or should not do. If you want any information  
conveyed to him about discounts we would suggest that you do it  
yourselves.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1873-12-04

December 4th.

. 3

Messrs. Cotton & Guild,

24 Milk Street,

Boston, Mass.

Dear Sirs:-

We have frequent inquiries from Boston as to the duplicating ink of mine which was sold extensively some few years back, but of which none has been made for some time past.

Messrs. J. P. Rogers & Co. have suggested to me that I <sup>arrange</sup> ~~arrange~~ with you to carry a stock. If you are willing to do so, I will have some made up in my laboratory, and will sell it to you at a reasonable price. I am anxious to pursue some such course as this in order to oblige the people applying to me for it.

Very truly yours,

*Wm. L. G.*



1893-12-04

Personal.

December 4th,

3

A. B. Chandler, Esq.

44 East 14th. Street, City.

Friend Chandler:-

Yours of the 1st. to hand.

I have written to Brown & Smith offering them positions.

If you hear of any other men let me know.

Very truly yours,

Jac  
I

1883-12-04

December 4th. 3

Paul D. Dyer, Esq.

161 Carondelet Street,  
New Orleans, La.

Dear Sir:-

I have your favor of the 28th. inst.

If you are not near home at Christmas time we will allow you the amount of your expenses to get to Washington and back to the point where you are at work. I presume you have no objection to this. Of course we sympathize with a man who goes into a town like New Orleans and buys his experience at the rate of \$30. a lesson.

Our business is getting along swimmingly. At the present time we are erecting the following central stations, Fall River, \$40,000., Newburgh, N. Y., \$40,000., Vallejo, \$15,000., Mt. Carmel, \$14,000. and Hazelton, \$20,000. The last three places are in Pennsylvania. Lima, Ohio, \$13,000., Tiffin, Ohio, \$14,000. and Middletown, Ohio, \$13,000. We shall start in Williamsport in the course of a week, contract \$53,000. Brockton, Lawrence, Shamokin and Sunbury are running elegantly, getting all the customers we want and making money. This is the state of our business in brief.

I have been going for our boys in the office for not sending you bulletins, but they do not contain any information about

1883-12-04

2

about our central stations. The New York Central Station is just "booming", collections \$10,000. per month. Have more customers than we can possibly carry, and if we get through December without a breakdown it will simply be that the "angels" are on our side, as we have too many lights connected already.

I sail for Europe on the 11th. December and shall be away until the 1st. February and if you do not get any word from this office that you can go home to spend Christmas just take "French leave", and charge your expenses in your weekly statement and if they "kick" refer them to this letter.

Very truly yours,

SS

1893-12-04

December 4th.

3

A. H. Chandler, Esq.

44 East 14th, Street, City.

Friend Chandler:-

Yours of the first to hand.

With relation to Colonel Sherman, he goes to Buenos Ayres solely for the Edison Electric Light Company, and I cannot see how it would be possible for him to do business for any one else. He is as you state a "queer dick", but seems to be an indefatigable worker.

Very truly yours,

Jac  
I

By Edison Machine Works,

1893-12-04

December 4th. 1893.

A. A. Cowles, Esq. Secty.

18 Cliff Street, City.

Dear Sir:-

I am still receiving complaints from our Superintendent of the delay in shipping him wire and bars for armatures and magnets. Cannot you hurry forward a heavy shipment, so as to give us something to work on. The quantities shipped to us are so small right along that we are continually in arrears and consequently obliged to continually complain, which I can assure you is very distasteful considering the manner in which you oblige us in other contracts. I am

I am having a statement prepared of the exact shipments made within the last few months. I will come down and see you about the matter probably Thursday or Friday.

Very truly yours,

The Edison Machine Works,

By

89

1883-12-04

December 4th, 1883,

W. H. Dwyer, Jr. Esq. Treas.

Full River, Mass.

Dear Sir:-

We have your favor of the 1st. inst., and immediately on receipt of same arranged to borrow an armature from the Isolated Company, in order to accommodate you, under the circumstances.

We wired you this morning that the armature would be shipped this

~~afternoon~~ <sup>afternoon</sup>. You must remember that we do not keep a stock of armatures of the old form of machines on hand, and consequently we have some difficulty in filling your orders for same right away.

<sup>order</sup>  
If you ~~order~~ an armature it takes at least two weeks to make same.

Very truly yours,

The Edison Machine Works,

By



1993-12-04

December 4th.

3

W. W. Dwyer, Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have the pleasure to acknowledge receipt of your favor of the 1st. inst.

The spare dynamo were shipped to Mr. Andrews either on Saturday or Monday.

We purposely kept back the meter supplies &c. until the other work is practically completed, as our experience is that parts get lost in the confusion of getting the station in order.

We will, however, have everything necessary shipped forward this week.

, Temporary fixtures and insulating joints will all go forward. Lamps will in all probability go to-day, if they were not shipped yesterday.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *S. J.*

1883-12-04

December 4th.

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

I am much surprised to receive your favor of the 30th, November. If you will look over your contract you will find that the third payment is due thirty days after the plant is in condition to supply light, and your plant has been in condition to supply light considerable time, and what I ask for is for a payment on account, and there is a balance left which, together with the extra tubes laid, gives an ample margin for any such troubles as you speak of. You are short about \$100. worth of meters at the present time.

Your indicators are made in accordance with the indicators got up by the Engineering Department of the Edison Electric Light Company, but notwithstanding this I propose to replace them as soon as I have a stock of an indicator of a more recent design, which I got up myself within the last month. I am not compelled to do this under my contract, but propose to do it in order to give you an article which, in my opinion, is best suited to your business.

Our Superintendent claims that the work is done properly and asserts that every other injector has been connected in the same way elsewhere.



You state that your engines have ten inch belts, when they should have twelve inch. This is simply a matter of opinion on your part. We have not allowed more than a ten inch elsewhere.

I would request you to reconsider your decision as to withholding the check for \$5,000., as I think I am fully justified in asking for it at the present time, more especially as we have lost considerable money in the installation of your plant at Lawrence.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

December 4th.

3

Messrs. Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We think, in reply to yours of the 24th. ulto., we prefer to wait and make a successful installation rather than risk failure, which the plant you suggest would in all probability lead to.

Very truly yours,

Thomas A. Edison Constn. Dept.

by



1883-12-04

December 4th. 3

W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

We shall be ready to ship the two small machines to Brockton sometime this week, and we shall be glad if you will send us by return an exact plan of that part of the engine room showing the position of the present small engine and dynamo, also the position of the large engine and the two dynamos. What I want to find out is whether it will be necessary for us to move the small engine from its present position, to enable us to drive two dynamos from each side of the shaft. If this is necessary it will add very materially to the expense of making the change, but if it is unnecessary we can supply the new dynamos and make some alterations with the engine and make the necessary connections for about \$850. In this of course we allow for taking back the present "H" dynamo which you now have. I will write you to-morrow giving absolute figures for which we will make the change.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-04

*Steam Engines*

December 4th. 3

Messrs. Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We have your favor of the 26th. November, and in reply beg to state that our business being a peculiar one we have to use material best adapted to it. The Babcock & Wilcox boiler is the only one which we can use and rely upon. It is a quick steaming boiler and takes care of the great variations in our load, which rises often from ~~100~~ to 150 horse power in the course of ten minutes. We have tried every other kind of boiler and find that it is the only one we can use. The old tubular boiler is very much cheaper, but absolutely of no use to us.

About three years ago we experimented on every form of engine we could find and have ever since continued the same experiments. We have never, however, found an engine suitable to our business as the Lawrence engine. It would take too long to go into all the reasons for explaining the advantages of it, so it must suffice for me to say that it is as much a part of our plant as the dynamo, and we shall continue to use it until we find some other engine equally as good as that manufactured by the Armington & Sims Co.

Very truly yours,

*Sf*

1883-12-04

Piqua

December 4th.

3

M. H. Hoffmann, Esq. Pres.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 30th. November enclosing check for \$3,400.75, being twenty five per cent of the contract price for the erection of a central station plant at Piqua, Ohio.

I shall be glad to hear from you whether the contract is to be made with your Company or the local Illuminating Company of Piqua. Immediately on receipt of this information I will send you signed contract. If the contract is to be made with the Piqua Company, please send me full information as to the officers of the Company, copy of the subscribers and amount of their subscriptions.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-04

Piqua

December 4th.

3

A. A. Dowles, Esq. Secy.

19 Cliff Street, City.

Dear Sir:-

We enclose you herewith order for wire for Piqua, Ohio.  
Please have the necessary papers made out and forwarded to us for  
signature. The amount of our contract with the Edison Electric  
Illuminating Company of Piqua, Ohio is \$13,070.40

Very truly yours,

Thomas A. Edison Constr. Dept.

By



Enclosure.

1883-12-04

December 4th. 3

A. A. Cowles, Esq. Secty.

10 Cliff Street, City.

Dear Sir:-

Referring to your favor of the 3rd. inst., will you please have the necessary papers in connection with the order for the Middletown, Ohio, wire. Our contract is with the Edison Electric Illuminating Company of Middletown, Ohio, and the amount of same is \$13,400.31

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12 05

December 5th. 3

Frank B. Mc Cormick, Esq. Prost.  
Williamsport, Penna.

Dear Sir:-

I am going to leave here for Europe on Tuesday next, and should very much like to take with me a letter from you as President of the Sanbury Company, stating your experience with your plant and the length of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This will be of immense assistance to me in dealing with some of Mr. Edison's friends. Will you so far oblige by sending me this as soon as you can.

Very truly yours,





1893-12-05

December 5th. 3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

I am going to leave here for Europe on Tuesday next, and should very much like to take with me a letter from you as President of the Shamokin Company, stating your experience with your plant and the length of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This will be of immense assistance to me in dealing with some of Mr Edison's European friends. Will you so far oblige by sending me this as soon as you can.

Very truly yours,



1883-12-05

December 5th. 3

Messrs. Bradstreets,

211 Broadway, City.

Dear Sirs:-

I shall be glad if you will inquire into the standing of the Edison Electric Illuminating Company of Middletown, Butler County, Ohio. The stockholders are, we understand, as follows:-

D. McCallay, R. Wilson, C. P. Johnson, C. H. Wardlow and J. F.

Thomas, besides some Cincinnati parties with whom we are acquainted

What we particularly want to know is the standing of the gentlemen

whose names we mention, and what is thought of this new Company

in Middletown.

Very truly yours,

*Jak*  
*J*

1883-12-05

December 5th.

3

W. D. Rich, Esq.

Dear Sir:-

Referring to your plan of Bellefonte, I regret to inform you that the sketch you have sent us indicates that the arrangement of the interior of the station is entirely opposed to the methods which Mr. Edison desires us to pursue in designing the interior of stations. Of course this is a matter which you could not be posted about, but I would be glad if in the future, before making any alterations in our plans, you would please refer the questions to this office, so as to give our engineers an opportunity of expressing their opinion on the matter. You have placed the cylinders of the engine as far away from the boiler as possible whereas it is Mr. Edison's desire that it should be as near to the boiler as possible, so that the engineer can attend to his throttle and see that this boiler is all right without moving from one position.

I am afraid that when Mr. Edison comes to visit Bellefonte he will criticize very severely the proposed arrangement there. Are your foundations so far advanced that it is impossible for us to alter the arrangement? If so, of course we must leave the matter as it is, as there is not sufficient margin to allow of our building the work up again.

1883-12-05

2

I am going to have a plan prepared with the same size building as you have arranged, but with the machinery and interior of the station arranged so as to conform with Mr. Edison's ideas as to the matter. He is very positive in his instructions on these questions or else I should not trouble you as to the ~~same~~ <sup>point</sup> involved.

There is also another point, whenever you alter the plan of a building you should advise us of the exact alterations, either before the alterations are made, which would be preferable, or if that is impossible after the work is completed.

We desire to make some alterations at Brockton just now and we understand that the plans in our office of the station shows by no means the same measurements as the arrangement of the station itself. Our machinery is always placed with the idea of effecting alterations at the least possible expense. We have to take out one "H" dynamo at Brockton and put in two dynamos, each of half the capacity of the "H", and these we propose driving from a pulley on each end of the shaft of the <sup>1</sup>2 x 10 engine.

We very much fear that we shall have to take the engine down and build a new foundation in order to do this. We have written to Mr. Jenks for the exact measurements, as Mr. Sprague informs us that our plans are incorrect, as I have stated above.

Very truly yours,

89

1893-12-05

December 3th.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

A Mr. Spencer, a friend of Sprague's, is very anxious to start in our business.

I have requested him to report to you at Fall River.

You might start him in like the rest of the novices and see what he <sup>is made</sup> ~~is made~~ of. Mr. Edison says that he is very well posted and will turn out a very useful ~~man~~. Please advise us the day he arrives in Fall River.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

SA

1883-12-05

December 12th. 8

John Ott, Esq.

1492 Avenue U, City.

Dear Sir:-

Mr. Tate complains to me that he does not think that the orders of our Construction Department have any particular attention down *at* the laboratory. If he has reason to make this complaint again, I shall bring the matter to Mr. Edison's attention, as I wish you to understand that it is important that any instructions we issue as to our material should receive prompt and thorough attention.

Very truly yours,

Thomas A. Edison Constr. Dept.

By *SP*

1813-12-05

December 5th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

Referring to your favor of the 2nd. December, will you please get the authority from Major Eaton authorizing us to canvass and prepare estimates for Kingston & Rondout.

Mr. Krussi has not yet been able to let us have his two estimates for Haverstraw and Poughkeepsie. Immediately he does, however, we will push the estimates through as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



December 3th. 3

Frank H. McCormick, Esq. Pres.,  
WilliamSPORT, Panna.

Dear Sir:-

We wrote you on the 19th. November asking for a  
settlement of our account with the Edison Electric Illuminating  
Company of Sunbury, but have received no reply *from you*  
Will you please let us hear from you in relation to the  
matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *SA*



1883-12-05

December 5th. 2

John Mullen, Esq. Treas.

Shamokin, Penna.

Dear Sir:-

We wrote you on the 20th. November, asking for a settlement of our account with you, but have received no reply.

Will you please send us a remittance by return.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-05

December 5th, 1883,

W. H. Dwyer, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

You will greatly oblige us if you can arrange us a remittance by return mail for the amount of our account against you.

We enclose you herewith statement showing balance against you of \$3,051.75

Very truly yours,

The Edison Machine Works,

By 

Enclosure.

1883-12-05

December 5th. 3

George Crower, Esq.

Testing Room,

104 Goerck Street, City.

Dear Sir:-

I send you herewith half a pound of <sup>Commercial</sup> ~~pure~~ sulphate of zinc from Powers & Weightman. I shall be glad if you will test this and give us an exact ~~xxx~~ record of the test. Messrs. Powers & Weightman claim that this is as good zinc as Leach & Pank's chemical pure.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

Enclosure.

1883-12-05

December 5th. 3

W. J. Garrison, Esq. Treas.  
Boston, Mass.

Dear Sir:-

We enclose you herewith statement of account which explains itself, and shall be glad to receive your check for the balance \$1,027.42 at your early convenience.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



Enclosure.

1883-12-05

December 5th.

3

I. Weinschenk, Esq.

50 West 24th. Street, City.

Dear Sir:-

Referring to your favor of the 3rd. inst., I will  
call at your place on Monday next about ten o'clock.

Very truly yours,

*Wm*  
*I*

1883-12-05

December 5th. 1883.

Western Edison Light Co.

Chicago, Ills.

Dear Sirs:-

We beg to enclose you herewith statement of account showing balance against you of \$3,180.13

I shall be very much obliged to you if you will allow us to draw on you at sight for this amount, and if we do not hear from you by telegraph to the contrary we shall send a draft forward for collection on Saturday next.

Trusting that you will be able to oblige us, we beg to remain,

Very truly yours,

The Edison Machine Works,

By



Enclosure.

1893-12-05

December 5th, 1893,

Messrs. Hermann & Co.

203 Avenue B, City.

Dear Sirs:-

If you have that block of slate, will you please send it down to Soldan immediately, as Mr Edison wants him to work it up into a commutator right away.

Very truly yours,

The Edison Machine Works,

By



1883-12-05

December 5th. 3

George H. Bliss, Esq.  
Chicago, Ills.

Dear Sir:-

We have your favor of the 3rd. inst.

One 32 candle lamp is equivalent to two 16 candle lamps.

You must have the dynamo you refer to in a hot place, or else you do not keep the brushes at the non-sparking point.

If they are placed two blocks away from the non-sparking point, the machine will heat more, even if 50 extra lamps were put on it. We are improving our new machines in the matter of commutators.

We must confess that we cannot understand why it is, but the troubles with machines seem to come <sup>almost entirely</sup> from your territory, as we do not hear of any troubles from any other places that amount to anything.

Very truly yours,

Zac  
L



1883-12-05

December 5th. 3

Messrs. Northmann & Co.

203 Avenue P, City.

Dear Sirs:-

Referring to your favor of the 5th. inst., we certainly think that we should receive the special articles we use at prices better than those at which you sell them to outside customers. Of course we have to charge in our contract a higher price than what we pay you for the goods. Consequently unless you pursue the course we suggest, we shall be in the position of charging more for your material than it can be bought from you direct, which certainly is not advisable considering that the articles which I refer to are such as you make particularly for us, and any outside customer would certainly not require any such quantities as we do. Why cannot you arrange to allow us a discount of 30 per cent and ~~other~~ people a discount of 10 per cent, or do I understand that you have already quoted 30 per cent discount. *to everybody* I should think that if you had not, that you could make an exception in the case of central station articles as against the discounts you allow on articles of general manufacture.

Very truly yours,

Thomas A. Edison Constr. Dept.

By 

1883-12-05

December 5th.

3

U. D. W. Vroom, Esq.

Trenton, N. J.

Dear Sir:-

Referring to your favor of the 3rd. inst., if you will send on the affidavit that is necessary I will execute and return it to you forthwith.

Very truly yours,

*U. D. W. Vroom*

December 5th.

3

Straight Line Engine Co.

Syracuse, N. Y.

Dear Sirs:-

Referring to our correspondence as to the straight line engine, I shall be glad if you will build me a 10 x 12 engine, having two driving pulleys thereon 50 inches in diameter and 11 inch face. We should require to run the engine at speeds varying from 240 to 270 revolutions. We shall have to depend on you entirely for drawings, as we have no draughtsman to send you.

Very truly yours,

*Yak*

7882-12-05

December 5th.

3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We have a report from one of our men at Tiffin stating that you quoted 3 1/2 per cent discount to some local parties there for Bergmann & Co's fixtures, whereas Bergmann & Co. have quoted 15 per cent. Bergmann & Co's discounts vary according to the nature of their orders and the people they are dealing with (like anybody else's discounts) and they have asked us to request you not to mention discounts in the future.

Very truly yours,

Thomas A. Edison Constr. Dept.

Ky



1883-12-06

December 6th. 3

Francis W. Upton, Esq.

East Newark, N. J.

Dear Sir:-

Mr. Andrews writes us that for the future he will run  
the bank of test lamps separate from main line in stations.  
If the lamps are picked the matter of low volts will be of no  
consequence.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-06

December 6th, 3

G. W. Wilbur, Esq.

Post Office,

Mobile, Ala.

Dear Sir:-

Your favors of the 27th, November and 2nd, December came duly to hand, and we are obliged to you for the information contained therein.

I have referred the matter of lighting the hotel to Mr Hutchinson, of the Isolated Company.

I telegraphed you to-day to Atlanta to canvass Mobile and Danville, Va. We have no connections in either of these places, so you must choose a district for yourself, making the canvass as ample as possible.

You had better try and arrange your canvasses so as to return to New York before Christmas.

About the commencement of the New Year we shall start you at work in Boston canvassing there, and shall probably keep you East some time.

Your friend Lyons is in Wellsborough, Penna.. He will be in that State that whole of this month.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

89

1883-12-06

December 6th, 1883.

Messrs. Woodward, Sherwood & Co.,

17 Montgomery Street,

Jersey City, N. J.

Dear Sirs:-

We have now a pattern shop in connection with our  
Works at Coeck Street. Will this make any difference in our  
insurance?

Very truly yours,

The Edison Machine Works,

By 

1883-12-06

December 6th. 3

G. B. Markle, Jr. Esq.

Hazleton, Penna.

Dear Sir:-

We have your telegram of this date, and at once telegraphed to our Superintendent, who is now in Ohio, and we hear from him that he will be in Bellefonte on Monday and will in all probability be in Hazleton the next day.

Very truly yours,

Thomas A. Edison Constr. Dept.

By





1893-12-06

December 6th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

We have information that your engineer got drunk the other night and left the station in charge of a boy, and we also hear that your lights are very poorly regulated, and that the City Hotel people have threatened to go back to Gas unless there is a change for the better. We trust that this is not so, and write you for information.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-06

December 4th. 3

W. D. Rich, Esq.

Post Office,

Bellefonte, Penna.

Dear Sir:-

We have your various telegrams and beg to confirm the several telegrams we have sent you as to Mt. Carmell, Bellefonte and Hazleton.

It does not seem to us that the work in these places is being sufficiently pushed. This is no fault of yours, but arises from the fact that you have so much to handle, and we would remind you that we spoke to you when you were here and thought you made a mistake in not having men who could take the initiative in starting work, even during your absence you have got to do something of this character with them.

To-day we have telegraphic instructions that Williamsport has been finally closed and work will have to proceed there right away. We will send all the information about Williamsport to Hazleton, where we presume you will be about Monday.

Enclosed please find check for \$500. as requested.  
Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-06

December 6th. 3

Thomas Spencer, Esq.

South Meriden, Conn.

Dear Sir:-

If you are willing to start in our business and learn our central station work, please report immediately to Mr W. S. Andrews at our central station in Fall River, Mass. You can find out the exact location of the station by applying to Mr W. H. Dwyer, Jr., Treasurer, Edison Electric Illuminating Co., Norden Block, Fall River.

Until such time as your services are valuable to us we will allow you a nominal salary of \$10. per week and <sup>may</sup> ~~also~~ railroad fares etc.

Please advise us immediately if you decide to start in with us.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1853-12.06

December 6th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have your telegram stating that the lot has been purchased in Piqua, and we have also received a telegram from our Superintendent stating that he would be in Piqua to-morrow morning.

We must confess that we feel somewhat annoyed that he should be kept in Middletown with practically nothing to do, as his time is very valuable to us indeed, and we would urge you in the future to be sure that you have our lot purchased before ~~we~~ <sup>ask him</sup> to start work on a plant.

Very truly yours,

Thomas A. Edison Constn. Secty.

By



1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Leonard is very anxious to go out to Ohio. We simply wish to notify you of his wish. It must rest with you entirely as to whether he should go there.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1893-10-07

December 7th.

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Do you know where Farby is? I could give him probably a month or six weeks work at Mt. Carmel. The last I heard of him from you was that he was at Lawrence. If he is there still when will he be disengaged? Please wire me on receipt of this, as I have a letter in the office which I cannot answer until I hear from you.

Yours truly,

Thomas A. Wilson Constn. Dept.

By



1883-12-07

December 7th.

3

L. I. Van Praagt, Esq.

P. O. Box 344,

Salt Lake City, U. T.

Dear Sir:-

In reply to your favor of the 30th. November, Mr. Edison desires me to state that were he not well versed in the laws of electrical science he would be unable to make any progress whatever. I may myself add that a long series of successful electrical inventions have never been known to be the product of casual thought.

Yours truly,

SL  
PS

1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

I am obliged to you for your favor of the 6th. inst., enclosing design for three wire cut-out. The matter is having the attention of Mr. Johnson and he will doubtless get up a cut-out for the purpose in time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By





1893-12-07

December 7th. 8

J. N. Blauvelt, Esq.

23 Clinton Place, City.

Dear Sir:-

I have made inquiries with relation to the references you gave me, which prove entirely satisfactory.

I shall therefore be glad if you will report here for duty on Monday morning next.

Your salary will be \$12. per week.

It is of course understood that you come here for trial, as we can hardly judge as to your abilities until we have had some experience with you.

Yours truly,

SK  
PS

1883-12-07

December 7th. 3

Judge J. F. Dunn, Esq.

Tiffin, Ohio.

Dear Sir:-

We have a letter from our Mr. Walker with relation to wiring.

Our object in sending him to Tiffin was to teach a local plumber or gas fitter to be appointed by you to do outside wire-work. The whole of the transactions with outside parties should be conducted by this plumber. Our Mr. Walker should simply supervise the plumbers work and teach him how to run the business. It would be a great mistake for your local Company to do the wiring itself. This we find from extended experience. You should appoint some local man to do it, and have him deal with your consumers in the same manner that we are running our business in Shamokin. There the local gasfitter has charge of the wiring, and our Illuminating Company has nothing whatever to do with the matter. We sent them a man who taught the gasfitter the business, and it is with this object that Mr. Walker has been sent to Tiffin.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. L. Garrison, Esq.

Boston, Mass.

Dear Sir:-

We have to-day got out the map of Auburn, and we will write you to-morrow or Monday in relation to the matter of the desirability of the town for electric lighting.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1893-12-07

December 7th. 3

H. H. Hoffman, Esq., Pres.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 5th. inst., and in reply beg to state that we will post you of any delay in the work at Piqua, Tiffin or Middletown. We do not anticipate any at present, except in the case in the delay from a matter over which we had no control of and of which you are aware, as it is connected with the purchase of a lot at Piqua.

We have not received the executed contract of Piqua, although we are going ahead with the work. Will you please send this on. It was mailed to you some time back.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th.

H. W. Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 4th. inst.

You must arrange with Mr. Andrews as to your going to Ohio. He has full charge of our electrical staff and the disposition of the services of the members of same. We have written him saying that you would like to go to Ohio.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1883-12-07

December 7th. 3

Henry G. McCormick, Esq. Pres.

Williamsport, Penna.

Dear Sir:-

We have your favor of the 6th. inst., and in reply  
beg to state that the exhibits you refer to, namely, the map and  
estimate, form part of our contract. It must, however, be under-  
stood that we undertake to run the lines in the places indicated,  
provided we are able to get the permit from the owners of the pro-  
perty on the route. Our estimate does not cover any payment for  
this right, and should we be unable to get past any particular  
point, we shall look to your Company to make the necessary arrange-  
ments to enable us to do so.

In sending our contract please give us a note confirming  
this.

You are right in understanding that we will run the sta-  
tion for thirty days after it is started.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-07

December 7th. 3

Messrs. Powers & Woughtman,

City.

Dear Sirs:-

The sample of sulphate of zinc, which you gave me, tested very well indeed, except that there are traces of iron in it. Will you please quote us a price for this article and also sulphate of zinc free from iron, the quotation to be based on orders of half a ton, done up in 25 lb. tin cases. Please send us a sample of sulphate of zinc free from iron. If we gave you orders we would expect to receive the sulphate of zinc subject to its being tested.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. D. Rich, Esq.

Hellefonte, Penna.

Dear Sir:-

Your numerous telegrams, including the long one from Piqua, have come to hand.

Of course all we could do was to judge of the state of the work by the telegram we got here, and which we promptly repeated to you. If what you say is so, I would advise you to go for Mr. Markle and the other gentlemen for sending such an erroneous telegram of this kind.

We are still, however, of the impression that you will find that you are unable to handle so much work without a little better assistance than you now have, as we have never understood that you men could go out and start work without your being present to give them preliminary instructions. Of course we may be in error about this matter, and we are interested to see how long it will take to put up the present stations and form correct conclusions in relation to how our work should be run. I presume if your system fails you will have no objection to trying ours? We are now standing off to see what will be the result. Of course it is our wish that you should be able to run the thing according to your present methods, and if you are able to do so we shall be



most agreenbly disappointed.

very truly yours,

Thomas A. Edison Constn. Dept.

By

8/13

1883-12-07

December 7th. 3

Paul D. Dyer, Esq.

Post Office,

Galveston, Texas.

Dear Sir:-

If you work like a race-horse, and get through the towns you now have to canvass South before Christmas, we will give you a "picnic" after Christmas in the shape of a district in New York to canvass. It will be a kind of a vacation to you.

Yours truly,

A handwritten signature, possibly "S. D.", in dark ink, located below the closing "Yours truly,".

1893-12-07

December 7th,

3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We shall have one of the pressure indicators got up  
by John Ott sent to you immediately Bergmann turns it out.  
Mr. Edison will not allow me to send the model away.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-07

December 7th. 3

W. S. Andrews, Esq.

Pall River, Mass.

Dear Sir:-

We return you herewith sketch of your clutch which you propose to use at Lawrence. We have ordered Bergmann to go ahead and make the box, leaving you to take care of the clutch part of the business.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-07

December 7th. 3

Edmund Davis, Esq.,

66 Washington Street,

Providence, R. I.

Dear Sir:-

We have your favor of the 5th. inst. If you will  
send proof of the sketch which you propose issuing we shall have  
no objection to your using it, providing we approve of it.

Very truly yours,

*Wm*  
*W*

1883-12-07

December 7th. 3

I. C. Walker, Esq.

care Judge Bunn.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 4th. December.

Your duty at Tiffin is to take in hand the local plumber and his men and teach them how to do our wirework. This you should be able to do without any further assistance from New York. We were able to follow this course at Chamokin and we are able to do it at Tiffin. In fact it is imperative that this should be done, otherwise our expenses will be very heavy in sending men from here and having them do the wiring in Tiffin. The wiring also should not be done for our account. The plumber should be appointed by Judge Bunn, and any material they use we will bill to them if you will notify us when you deliver it over to them.

We have already sent you the new calculations for inside wiring and will send a table for calculating the three wires services as soon as possible.

Use the time sheets of the Insulated Company and send us a specimen of any suggestions you may wish to make and we will have sheets got up for our Construction Department.

The business anyway should not be conducted by you, but

1883-12-07

it should be conducted by the local plumber, under your supervision and direction.

I have ordered the material you speak of and will send it forward as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-10

Battery, Storage

December 10th.

3

G. W. Brewko, Esq.

Clinton, E. Feliciana, L. J.A.

Dear Sir:-

Referring to your favor of the 24th, November, I would state that your suggestion is a practicable one. An induction coil throwing a spark of half an inch with two cells of battery, the whole set up in portable form and having two brushes of wire, would do the work. I have no time at all to experiment on the matter, as my business occupies the whole of my attention.

Very truly yours,

T. A. C.



Edison Lamp Co.

1893-12-10

December 10th.

3

Francis R. Upton, Esq.

East Newark, N.J.

Dear Sir:-

Will you please send to me at 21 Burton Crescent,  
London, W. C. England, a statement of the Lamp Company's affairs  
up to the end of November. I desire this so that I can explain  
intelligently to Mr. Batchelor the exact standing of the Lamp Co.  
I have a letter from him this morning in which he asks me to do  
this.

Very truly yours,

S. I.

Dynamoes

1883-12-10

December 10th. 3

M. J. Jones, Esq.

Brockton, Mass.

Dear Sir:-

We have your favor of the 5th inst.

As soon as our engineers have figured on the sketch you sent us, we will write you definitely as to what we can do in relation to the small dynamoes. We have them ready to ship, but there is no object in sending them to you until we know exactly how we can place them.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

S. I.

1893-12-10

December 10th. 3

W. J. Garrison, Esq. Treas.-  
Boston, Mass.

Dear Sir:-

We have your favor of the 7th. inst..

We have written Mr. Rich with relation to the Cornwall  
Heat Regulators, and as soon as we hear from him will remit for sa  
same. At the present time we have no bill for them in our office.

With relation to J. W. Bailey & Son's bill the letter  
you enclose is the first that we have heard of it. In fact we  
have no bills on our books for the Brockton central station.  
As soon as we can get word from Mr. Rich in relation to these  
matters we will liquidate the claims. Meantime we must request  
that you do not send checks for same, as there may be some reason  
for their not being paid.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

Telegraph - Gen.

1883-12-10

December 10th.

3

S. B. Harvey & Thos. Hearsby,  
403 Pioreo Street,  
Phila. Penna.

Dear Sirs:-

Referring to your favor of the 4th. inst., the best  
way to learn telegraphy is to go into a telegraph office as a  
telegraph boy and pick it up in that way.

Yours truly,

T. A. J.

1883-12-10

December 10th. 3

Messrs. Markle & Ball,

33 Congress St.,

Detroit, Mich.

Dear Sirs:-

We have your favor of the 7th. inst., and your wishes in regard to estimates shall receive our attention.

Mr. Cooke will not be withdrawn from your territory until he gets through.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-10

December 10th. 3

W. D. Rich, Esq.

Dear Sir:-

The Bellefonte people object to the  
use of asbestos roofing. I presume you will settle this matter  
with them.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1113-12-10

December 10th. 3

W. D. Rich, Esq.

Dear Sir:—

You may remember of my speaking to you about the boilers at Lawrence. We have a letter from Mr. Lord in which he says:—

"I know that when we feed our boilers with cold water the steam is so damp it will not do much more than half duty, although the pressure remains constant or nearly so."

I think Mr. Lord claims that the trouble is with the injector connections to the boiler. Will you please let me know what you propose to do in the matter.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1873-12-10

December 10th. 3.

W. D. Rich, Esq.

Dear Sir:-

We enclose you herewith letter from Mr. Garrison, together with bill and letter of J. W. Bailey & Son.

Will you please let us know per return about the Corn-wall Port Regulators and J. W. Bailey & Son's bill, as if the claims are correct we want to pay them. It gets us into rather bad odium to have matters stand over.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

Enclosure.



1883-12-10

December 10th. 3

A. Stuart, Esq. Secy.  
Cincinnati, Ohio.

Dear Sir:-

Referring to your favor of the 6th. inst., you will have  
also this have received information to the effect that our Superin-  
tendent has started the work at Piqua.

Very truly yours,

Thomas A. Edison Constn. Dept.

Y



1883-12-10

December 10th. 3

W. J. Hammer, Esq.

Berlin, Germany.

Dear Sir:-

Referring to your letter with date, I think if you will look up my patents you will find that one of them covers a patent for taking care of the irregularities in a gas machine.

DYNAMOS. The "H" machine is tested for 400 amperes.

500 lights means nothing, suppose they were 50 candle lights.

Please talk amperes. We have Butcherer the carrying power in

amperes. Since you received the model "H", we have reduced the

resistance of the armature by using larger wire, thus raising it

up so that it runs cool with 400 amperes on it. You people were

in such a hurry to receive your model, that we were compelled to

ship you the first machine we had, and because there was consid-

erable delay in making the shipment you seem to have the impression

that we were not paying attention to you. If you had left us to

ship you what we considered our best machine, we should not have

shipped the 400 ampere machine, but would have waited at least

a month after the date that we made the shipment.

We can send models of a half horse power and one smaller

1913-12-10

size motor for sewing machines.

With relation to the lamp factory, I note what you state as to the desirability of having your lamp factory in Germany itself. I will send you the apparatus that you may order, but it will be quite impossible for us to supply your Company with any men. Our staff has already been reduced too much by sending out our assistants to Europe, and we must really look to ourselves in relation to this matter. We have now reduced the price of the ten candle lamps to 30 cents. As we make more of them we shall probably reduce the price further, but the shrinkage in the manufacture of the lamp is probably greater than in any other. We do not use any "P" Lamps at all to speak of in this country.

I will have copies of estimates and plans sent forward to you in the course of a week or so. You will be able to get information in relation to these matters from Mr. Insull, who leaves here on Tuesday.

We do not propose putting the three wire tubes in the downtown district, as the whole of that district is now covered with the two wire tubes. We are, however, arranging to build another station uptown, which will be run on the three wire system. All our small town plants, whether underground or overhead, are

also motor for starting machine

3

run on the three wire system.

3

Very truly yours,

T. A. G. O.

1813-12-10

December 10th.

3

Colonel C. Goddard,  
City.

My Dear Goddard:-

I have your memorandum of the 8th. inst.

I was under the impression that you were still out of town, as the estimate has been waiting here sometime.

The mere fact of my being away will not prevent your getting estimates made out here.

Tate will communicate with you as to the estimate.

Many thanks for your kind wishes as to my trip.

If there is anything that I can do for you over there, if you will address me care of The Western Electric Co., 59 Moorgate Street, London, E. C. England, I will have great pleasure in attending to your requests.

Very truly yours,

S. J.

1883-12-10.

December 10th. 3

Colonel G. Goddard,  
City,

My Dear Colonel:-

I got your letter written Saturday this morning, and am sorry that I could not see you prior to your starting for Boston. I am now just in receipt of your letter of Sunday night.

My Address in London is, 21 Burton Crescent, London, W. C. England.

I shall be very happy to attend to any matters for you there. Please drop me a line stating what you want me to do as early as possible, as my stay in London depends entirely upon how long I shall be kept by certain business I have to attend to.

My cable address is "Insull". In writing me please mention your cable address, in case it should be necessary for me to use the wire.

Thanking you for your very kind wishes, and hoping that you will have a pleasant Christmas, believe me,

Very sincerely yours,

*S. I.*

1883-12-10

December 10th.

3

Secretary,

Edison Electric Light Co.

74 Coleman Street,

London, E. C. England.

Dear Sir:-

I beg to advise you that my Private Secretary, Mr. S. Insull, will arrive in London about the 20th. inst., and will in all probability be in Europe about a month.

While he is there I trust that he will be able to make arrangements with you for the settlement of my patent account, and also hope that he will be able to get a revision of my contract with you in relation to patents, as in its present form there are many objections to it. He will explain to you when he calls on you what I desire to achieve in this connection.

Very truly yours,

J. A. E.  
J

1883-12-10

December 10th.

3

Charles Batchelor, Esq.

Paris, France.

My Dear Batch:-

Yours of the 25th. ulto. came to hand this morning.

I will have all the data as to accounts with me when I arrive in Paris. I have got a variety of matters that I want to go into with you there, but the main thing is to show you how necessary it is, alike for our business and your own interests, to come back here. Knowing your wishes in the matter I do not think you will need my persuasion.

Write me to London, saying whether you will be in Paris right along from about 27th. December. I hope to get there by New Year's anyway.

My London address is Samuel Insull, Jr., 21 Hurton Crescent, London, W. C. England.

Very truly yours,

S. I.



1883-12-10

December 10th. 3

Compagnie Continentale Edison,  
Paris, France.

Dear Sirs-

Referring to your correspondence as to the prices I have quoted for lamps and the fact of my having entered into competition with your factory as stated by you, I beg to advise you that my Private Secretary, Mr. Samuel Insull, will be in Paris early in January, and will call on you with relation to the matter, and I trust will be able to make some arrangement satisfactory equally to you and myself.

Very truly yours,

J. A. E.

1883. 12. 10

December 10th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 5th. inst., I informed  
Mr. Oakley that we should no longer require his services, as I  
understood from you that he was hardly good enough for our work.

Yours truly,

Thomas A. Edison, Genl. Mgr.

By



1883-12-10

December 10th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 7th. inst., we have quite a stock of wire ordered, which of course must be used up before we start in with the straight rods which you suggest for interior use in stations. The Ansonia people could make the wire for us in twenty foot lengths as they do for the Tube Co., but we would prefer ordering it in twelve foot lengths, as it can be handled in shipment much easier in the latter lengths.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-10

December 10th. 3

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We have your favor of the 6th. inst., and in reply beg to state that the interpretation we put upon our contract with you is exactly what we have always understood it to mean.

We do not understand what you mean as to the engine pulleys. Do you mean the pulleys on the 8<sup>1</sup>/<sub>2</sub> x 10 or the 14<sup>1</sup>/<sub>2</sub> x 13 engines as being all right, if we send you 10 inch pulleys on the dynamos, that is do you want 10 inch pulleys on the spare dynamos or on the main machines?

With relation to the use of 12 inch bolts, we have very great respect for the opinion of Mr. Sims, but we must confess that we prefer that our engineers should decide all questions in relation to the engineering of our stations. When we think that our office talent is deficient, we may possibly call on Mr. Sims for his opinion in the matter.

We have written to Mr. Rich in relation to your boilers. He is now in Pennsylvania. Of course if there is any trouble, for which we are to blame, we will fix it.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*T. A. Edison*

1883-12-11

Dec. 11th,

3

Mr. W. Taylor & Co.

Willow Springs, Jackson, Co.

Oregon.

Dear Sirs:-

Replying to your letter of the 24th, inst. I beg to say that Professor Price, of San Francisco, is in my opinion the most trustworthy assayer in the United States, and I would suggest your communicating with him.

Very Truly Yours,

*Wm*  
*BE*

1883-12-11

Dec. 11th,

3

Mr. W. S. Andrews,

Gen. Electrical Engineer.

Box 565 Fall River.

Dear Sir:-

We have your letter dated at Lawrence of the 7th, inst. in relation to sending Mr. Leonard to Ohio.

In reply we beg to say that the management of the Electrical Station is entirely in your hands. And you must dispose of your men as you think best.

In regard to the number of Feeders in the Williamsport installation, we had a new canvass made of this place as the one we had in the Office was an old one made by the Light Co. We are now having a new Electrical Determination prepared, and will advise you to-morrow by wire as to the number of feeders. It is <sup>over head</sup> ~~a hand~~ installation.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

*ADJ*

1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer,  
Box 565 Fall River,

Dear Sir:-

In reference to your letter of the 9th, inst. we do not think it at all likely that Piqua and Middletown will be ready as soon as Tiffin is finished. At Middletown they have not yet secured the lot for Central Station purposes. And the work on Piqua has only just been started, either Bellefont, or Mt. Carmel will follow, after Tiffin Piqua may come in about the same time as Hazelton, but Middletown will certainly be the last on the list.

In relation to Spencer please note the attached letter, you better start him to work at a salary of ten Dollars per week, we to allow his railway fares.

Please return Mr. Spencer's letter for perusal.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By



1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer,

Box 865 Fall River.

Dear Sir:-

In regard to books of questions and answers, we do not in each case take receipts for them. Conant Doubleday & Leonard, such and a set, but we cannot at the moment remember whether any of them were returned or not. In any event it would be as well to issue a caution.

In regard to Readers at export there are four.

Very Truly Yours,

Thomas A. Edison, Construction Dep't.

By

*ALY*



1883-12-11

December 11th, 1883.

Gustav Solder, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

Referring to the attached letter from Mr. Dwelley, in which he complains of the workmanship on the second "H" dynamo at the Flint Mills, please read same and let me have your answer at the earliest possible moment.

Yours truly,

The Edison Machine Works,

By *W. J. A. J.*

1883-12-11

*Steam Engines*

\*Dec. 11th,

Mr. Frank S. Marr, Treas..

Edison Electric Illuminating Co.

Sunbury, Penn.

Dear Sir:-

Mr. Edison has requested me to write you, suggesting that you make sure that your water supply for Boiler will not freeze up this winter. Mr. Edison states that it is his opinion it will be affected by frost. Have the said mains been laid yet?

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

*T.A.E.*

1883-12-11

December 11th. 3

E. W. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 7th. inst. addressed to Mr Insull, in which you state that we are unbusinesslike for delaying your orders.

We would beg to remind you that this material is not made by us and therefore we only indirectly control its production. Upon the receipt of your letter we immediately wrote to Messrs. Hoffmann & Co. censuring them for the delay to your material and the inconvenience they put us to thereby, and in replying to us they admit the fault, and are hurrying your orders to the greatest extent possible.

There were shipped to you to-day, 10 extra bottles, 10 extra pairs zincs and 10 sets of rubber fixtures each for the 12 light, 25 light, 50 light and 100 light motors, also five 12 light meters complete and fifteen 25 light meters complete, and as we have stated above the balance of your order is receiving our special attention.

The cost of the meters which you now have on hand at Lawrence, namely, 25 for 12 lights, 25 for 25 lights, 10 for 50 lights, 10 for 100 lights and 5 for 100 lights, together with the

1883-12-11

2

extra bottles, plates, zincs and rubber parts, amounts to about \$375., and in order to prove to you that we are not short on our ~~contract~~ <sup>contract</sup>, we would refer you to same, which calls for meters of different capacities from the above, yet amounts to only \$530. The changes in the size of the meters were made of course at your request.

In view of the above facts we should be glad to receive from you your check for \$3,000., as requested some few days ago. There is sufficient margin left after paying us this money to enable you to discuss safely any matters wherein you think we have failed to live up to our contract:

The Lawrence installation has been pecuniarily disastrous to us, and we have urgent use for the money which we now ask you to send, and we trust that we can rely upon its receipt within the next few days.

Very truly yours,

*Law*

1883-12-11

Meters

Dec, 11th, 3

Mr. H. Ward Leonard,

Care Edison Electric Illuminating Co.

Lawrence, Mass.

Dear Sir:-

In relation to form of Meter Blank which you prepared  
some little time ago, will you be kind enough to send me a copy.  
I believe you sent me a specimen, but it has been mislaid in the  
office here.

Very truly Yours,

Thomas A. Edison, Construction Dept.

By

G. O. T.

1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Box 505 Fall River,

Dear Sir:-

Replying to your letter of the 9th, inst. in which you asked us to get ~~per~~mann & Co. to make a small cheap four point switch, similar to our ~~Best~~ House changing switch. Will you please send us a diagram of what you want drawn to scale.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By

A.O.L.

1883-12-11

December 11th.

3

L. Weinschenk, Esq.

50 West 24th. Street, City.

Dear Sir:-

In reply to your note of the 10th. December, I regret very much not having been able to keep the engagement I made with you, but I was called away.

I will meet you on Wednesday (to-morrow) at ten o'clock.

Very truly yours,

*Wm. J.*

1883-12-11

Dec: 11th,

Geo. H. Bliss, Esq, Gen, Sup't,

Western Edison Light Co.,

52 Wabash Ave. Chicago, Ill.

Dear Sir:-

We have your letter of the 8th, inst. in regard to Lima. We will be ready for the parties just as soon as they are prepared for business.

Very Truly Yours,

Thomas A. Edison, Construction Co.

By

*T. A. Edison*



1893-12-11

December 11th. 3

W. H. Twolley, Jr. Esq. Treas.  
Fall River, Mass.

Dear Sir:-

We learned this morning that you sent an order to the Edison Electric Light Company for 500 sixteen candle power lamps for use in connection with the Fall River central station.

We would now call your attention to the fact that the Fall River installation is for ten candle power lamps, Fall River being a coal gas town, we supply lamps of this power, and they, in practice, are always run at twelve candles, which will give more light than any five foot gas burner in your City.

We would strongly advise your recalling this order, or possibly there has been a mistake made and sixteen candle power lamps ordered instead of ten.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*any*

1883-12-11

Dec. 11th,

W. S. Andrews, Esq.

Gen. Electrical Engineer.

Box 565 Fall River.

Dear Sir:-

*Kirby*  
~~Query~~ Replying to your letter of the 9th, inst. in regard to  
don't you think it would be a good idea to simply state  
incidently to him, that Mt. Carmel, Hazelton and other places  
are now being started, and that he could do well at these differ-  
ant points, "on his own hook."

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By *AOJ*

1813-12-11

December 11th. 3

Messrs. Marble & Hall,  
33 Congress Street, W.,  
Detroit, Mich.

Dear Sirs:-

In further reply to your favor of the 7th. inst., we beg to say that we have the map of Grand Haven prepared and will send it to you to-morrow to obtain option on lots for central station purposes. After receiving information in regard to lots, and choosing therefrom the one best suited to our business, it is only a matter of a few days to supply an estimate. We should therefore be glad to know if you would like us to send you the estimate for Grand Haven, which you could hold yourself until prepared to present it to the local people, or if you would prefer us allowing the matter to remain in abeyance in this office until we receive instructions from you to go ahead with the work.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*A. E. S.*

1883-12-11

Dec. 11th,

D. M. Osborn, Esq.

Auburn, N. Y.

Dear Sir:-

We send you under separate cover, a Blue Print of Auburn. But in addition to supplying us with information in accordance with the attached form, we wish you would be kind enough to look over the district we propose wiring, and ascertain if there are any obstructions which would prevent our taking the course we propose. We propose so laying under-ground mains in this place, and their course is indicated by a red line.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

By

OOJ

1883-12-11

December 11th. 8

A. Staart, Esq. Secty.  
Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 8th. inst. in reference to the new form of special report which we sent you to have filled out for a number of towns. We do not wish you to send a man around specially to obtain this information, but we presumed that you were in communication with local parties who could furnish the information we required. As you will notice the form is much more complete than the old one which we used.

If you can obtain the data for us, as stated above, we should be glad to have it, otherwise we do not wish you to go to any expense in order to get it.

We return herewith Mr. Dyer's report on Lima as requested.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-11

Dec. 11th,

Mr. P. E. Shaw,

Care Ohio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. O.

Dear Sir:-

Replying to your letter of the 6th, inst. we beg to say that we cannot send the canvasser to Pottsville as soon as the canvass of Circleville is completed. This will probably be in a weeks time.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.

1883-12-11

Dec. 11th,

Mr. P. E. Shaw,

care Ohio Edison Installation Co.

North West Cor. 3 & Vine Sts. Cinn. O.

Dear Sir:-

We have your letter of the 6th, inst. including the communication from Mr. Bichter as to the progress at Mt. Carmel, which we beg to return unrequested. We are getting ahead at Mt. Carmel just as fast as we possibly can. But of course we cannot expect the local people there to see the difference between the erection of a house, and the installation of an Electric Light Plant. It will not be very long before these people are in a better humor.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.

1883-12-11

December 11th. 3

H Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 7th. inst. in which you ask for a copy of the book of Questions & Answers.

We would beg to remind you that Mr. Edison gave you a copy of this book when he was at Brockton.

The blue book containing table of conductors you can obtain from Mr. Andrews.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. A. H.*



1883-12-11

December 11th.

3

Sir John Lubbock,

15 Lombard Street,

London, E. C. England.

My Dear Sir John:-

This will introduce to you my Private Secretary  
and business representative, *Mr. Saul Knell* who goes to London to spend Christmas  
there. Whilst he is on your side of the Atlantic he will have  
various business matters to settle with the Edison Electric Light  
Company of London.

Any assistance that you can render him will be greatly  
appreciated by,

Yours very sincerely,

*T. A. C.*

1873-12-11

December 11th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

Mr. Edison has <sup>requested</sup> ~~asked~~ me to write you, suggesting that you make sure that your water supply for boiler will not freeze up this Winter. Mr. Edison states that it is his opinion it will be effected by Frost. Have the street water mains been laid yet?

Very truly yours,

S J  
PS

1883-12-11

Dec. 11th,

Mr. Chas. P. Lyon,

Circleville, Ohio.

Dear Sir:-

We have your letter of the 7th, inst. The canvass of Wellsboro came to hand to day.

In regard to when you should commence canvassing a town, you should always start work at dusk, just as the people commence lighting.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

By

A. O. J.

1883. 12-11

Dec. 11th,

John Lucas, Esq.

Hawks Nest, P. O.

West, Va.

Dear Sir:-

Replying to your letter of the 4th, inst. in relation to running a machine for boring coal by Electricity, I beg to say that the electrical part is hardly practicable. Unless wires run through the drifts to furnish power and light, from a Dynamo at the existing works.

Very Truly Yours,

J. A. E.

Dec, 11th,

3

Straight Line Engine Co.

Cor. Goddard & Fayette Sts.

Syracuse, N. Y.

Dear Sirs:-

We have your letter of the 6th, inst. in relation to a Pattern Maker. We regret to say that we have not a man in our employ at the moment whom we could send. But are in communication with a first class pattern maker, whose services we expect to secure. On this subject will write you more definitely in a day or two.

Very Truly Yours,

Edison Machine Works,

By

A. O. T.

1883-12-12

December 12th. 3

Gen. Anson Stager,  
care Mc. Ginnis & Peering,  
30 Broad St. City.

Dear Sir:-

The following is a list of towns in Southern Illinois  
which I would propose to canvass and make estimates for for your  
Company. Please advise us if we shall go ahead.

Alton, population	1,578,
Bellville	" 10,000,
Cairo,	" 4,014,
Champaign,	" 5,104,
Springfield,	" 19,740,
Decatur,	" 9,540,
Jacksonville,	" 10,927,
Lincoln,	" 5,875,
Witchfield,	" 4,320,
Paris,	" 4,370,
Quincy,	" 27,275.

Very truly yours,

*J. H. J.*

December 12th. 3

Charles T. White, Esq.

104 Liberty Street, City.

Dear Sir:-

Have you on hand any sulphate of zinc free from iron and would you be kind enough to send us a sample? If the material is satisfactory, we would like to give you an order for a quantity of it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Ray*

1883-12-12

December 12th. 3

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have your letter of the 6th. inst. requesting us to order four more plug switches for bank of test lamps, which we have done.

In regard to pulleys on the "S" machine, this dynamo is run in connection with a <sup>1</sup>9 2 x 12 engine, <sup>and</sup> which must have a 10" pulley. If we use 12" pulleys on the "S" machine, the Armington & Sims people would have to put a 37" pulley on their <sup>1</sup>9 2 x 12 engine, and as the 47" is their standard pulley, we do not wish to make a change.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *A. E. J.*



1883-12-12

December 12th. 3

A. B. Chandler, Esq. Pres.

Fuller Electric Light Co.

Union Square, City.

Dear Sir:-

Did you ascertain about Smith's wages? Please give me his full name, as I have forgotten it.

Very truly yours,

*JAC*  
*7*

1883-12-12

Dec. 12th,

Frank S. Marr, Esq. Treas.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:

We beg to enclose herewith statement showing the amount due us at the present time by the Sunbury, Co. It is chiefly made up by the balance due on contract, the other items are for wire, and some small fixtures, which we send at your request.

Very truly Yours,

Thomas A. Edison, Constn. Dep't.

By

A. C. S.

1883-12-12

Sunbury

December 12th. 3

Frank H. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

In relation to your letter of the 4th. inst., in which you state that the belt you are using on one of the Sunbury engines shows signs of wearing and should be replaced, and that it was only put in service temporarily, we beg to say that we cannot understand why the belt should have given out so soon, nor have we any recollection of it having been placed there with the understanding that it was to be removed and another one substituted. Our Superintendent, Mr. Rich, states that the belt was respliced at Sunbury and that the work was well done. It is exactly the same article that we are using in connection with other installations, which latter are giving perfect satisfaction.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

907

1883-12-12

December 12th. 3

Col. C. Goddard,

Care Time Telegraph Co.

Temple Court, City.

Dear Sir:-

We beg to enclose herewith our estimate No. 67, A for the erection of a Central Station Edison Electric Light Plant at San Jose de Guatemala of 400 lamps capacity of 14 candle power each, and amounting to \$23,445.91

We also send you map of San Jose de Guatemala with the district marked off.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*Ray*

Enclosures.

1883-12-12

December 12th. 9

Charles T. Hughes, Esq.

Poughkeepsie, N.Y.

Dear Sir:-

We beg to enclose herewith our estimates Nos. 77, 77, A and 77, B, for the erection of an Edison Electric Light Central Station Plant at Poughkeepsie, New York, and amounting to \$23,649.40--\$40,007.42 and \$34,786.65, together with their attended maps.

In relation to estimate No. 77, by referring to the Street Installation, you will see that the district we propose wiring, in the event of his estimate being accepted, covers 2,648 lights. Estimate 77, A provides for 3,411 lights in the district and estimate 77, B for 1,630 lights. By referring to the maps accompanying these estimates you will find the course of the street installation marked thereon. It will therefore be unnecessary for us to go into a lengthy comparison, as it only remains for you to choose the one you consider best suited for the purpose.

In submitting these estimates it is of course understood that the local Company obtain all necessary permits for us to open streets and lay our tubes, in accordance with whichever one they may accept, and we will not in any way be responsible for any failure to obtain these, which might prevent our laying mains, as

1883-12-12

shown on the map.

Trusting these will meet your requirements, we are,

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*W. A. S.*

Enclosures.

*W. A. S.*

*W. A. S.*  
*W. A. S.*  
*W. A. S.*

*T*

*W. A. S.*  
*W. A. S.*

1883-12-12

December 12th. 8

John Hoskin, Esq.

6 Ledger Building,

Phila. Penna.

Dear Sir:-

We have your letter of the 11th. inst., and in reply  
beg to say that if the speeds of both dynamos do not vary much from  
what they are set up at and the resistance boxes are proportioned  
so that the load will divide according to the capacity, they will  
run perfectly together. We run them this way in our central  
station plants.

Very truly yours,

*W. C.*

1893-12-12

December 12th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N.Y.

Dear Sir:-

We beg to enclose herewith plan of the central station we propose erecting at Poughkeepsie, also estimate of daily running expenses and statement of probable profits on a \$50,000. capitalization, which latter shows an excellent percent for dividends.

We also enclose the remaining estimate for this plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *Edison*

Enclosures.



1873-12-12

December 12th.

3

Messrs. Kent & Auerbach,

3 Broad Street, City.

Gentlemen:-

I understand the case of Smith vs. Edison is on the Calendar and will be soon reached for trial. I desire to associate with you in the suit Mr. J. C. Tomlinson. You will be good enough to allow him to examine all the papers, and consult with him as to the conduct, management and trial of the suit.

Very truly yours,

*John*

1893-12-13

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 565,

Fall River, Mass.

Dear Sir:-

We have your letter of the 11th. inst. in reference to the belts for driving the two <sup>4</sup>/<sub>2</sub> dynamos being too long.

The reason that those belts are of improper size is that the dynamo has been set 11<sup>3</sup>/<sub>4</sub> too near the engine, and not in accordance with our plans, which say 10' from center to center.

Would it not be possible to move those dynamos back 11<sup>3</sup>/<sub>4</sub>?

If not, we would prefer having the belts respliced.

Yours truly,

Thomas A. Edison Constat. Dept.

By

*A. E. Constat.*

1883-12-13.

December 13th. 3

E. H. Lord, Esq. Treas.  
Lawrence, Mass.

Dear Sir:-

We have your telegram of yesterday instructing us to send 10" pulleys for the "6" dynamos.

In this connection we beg to say that we always use a 12" <sup>Pulleys</sup> ~~when~~ when an U<sup>1</sup> 2 x 10 engine is driving this machine. At the Pearl Street station in this city we have run a 14<sup>1</sup> 2 x 13 engine at 350 revolutions for seventeen consecutive days with perfectly satisfactory results.

The U<sup>1</sup> 2 x 10 engine at Lawrence would have to be run at about 325, if you use 12" pulleys, and we do not consider that 325 revolutions per minute is too high a speed for this small engine, when we have obtained such results as above stated from the 14<sup>1</sup> 2 x 13. Furthermore, if you use 10" pulleys you will have trouble by the belt slipping, inasmuch as it does not form as good a contact with that size of pulley as it does with the 12". If, however, you still desire to use 10" pulleys we shall be glad to send them on immediately you advise us, but we consider it advisable to mention the above facts before filling your order.  
Very truly yours,

Thomas A. Edison Constn. Dept.

By *ASH*

1893-12-13

Dec. 13th,

3

Gustav Soldan, Esq.

Edison Machine Works,

104 Goerck, St. City.

Dear Sir:-

Replying to your letter of the 11th, inst. wherein you state that it would be advisable to have a complete set of drawings for the Straight Line Engine. We beg to say that we have a complete set made, and the letter sent you stated that they were making the patterns.

Verym Truly Yours,

Edison Machine Works.

By

AOJ

By

1883-12-13

December 13th. 3

Personal.

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Can you give us any idea as to when the Fall River station will be ready to start? We are aware that there is a quantity of electrical material which has not yet gone forward, but if you can make a start and introduce these fixtures afterwards it will be of very great service to us financially.

We presume you have heard nothing from Mr. Rich as to when Tiffin will be ready for you men. We have to-night asked him this question, and will advise you upon receipt of his reply.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-13

December 13th.

3

W. C. Smith, Esq.

542 Pearl Street, City.

Dear Sir:-

Could you possibly come to this office to have an interview with me sometime to-day. Let me know by bearer what time we I may expect you, in order that I may be in when you arrive.

Very truly yours,

*J. A. K.*

1883-12-13

Dec. 13th,

3

W. S. Andrews, Esq.

Box 505 Pull River.

Mass.

Dear Sir:-

We have by ur letter of yesterdays date in regard to Williamsport and Newburg, we wired you on the 11th, inst. that there were 4 Feeders at Newburg. And yesterday we sent you a telegram, stating that there were 5 Feeders in the Williamsport Installation. Since sending the latter telegram, we are in receipt of a letter from the Williamsport Co. stating that they have not yet secured a lot, and asked our indulgence until we hear further from them. In view of this fact we wired you this morning, to do nothing to Williamsport material, until you were advised further from this Office. We will send you the information you desire at the earliest possible moment.

Very Truly Yours,

Thomas A. Edison, Consn. Dep't,

By



1883-12-13

December 13th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

Can you tell us when the Tiffin station will be ready for our electrical staff to commence work on the inside wiring? We would like to start them on this work at the earliest possible moment. Will you kindly send us a letter stating exactly the condition of the advancement of the central stations at Hazleton, Mt. Carmel and Bellefonte.

Yours truly,

Thomas A. Edison Constn. Dept.

By.





1873-12-13

December 13th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

We send you herewith two plans of the Bellefonte station, one marked "A" having been prepared from the sketch you sent us giving the details of your proposed arrangement, and the other marked "B" is one which has been prepared in this office.

By referring to these plans you will see that both buildings are exactly the same size, and the the same capacity of plant is obtained without increasing the length of either building.

Were we to adopt the plan which you sent us and put in the engine and boiler (upon which we have made a cross) it would be impossible for the engineer to attend to his engine and look after his steam, *without very great inconvenience*

We have marked with the letter "A" on our plan the positions of the boiler and engine which we now propose to install, and by reference to same you will see that it is a much more convenient arrangement than the one you suggest. The only difference it makes in the interior arrangement of the station is to reduce the length of the office from 13' to 11' 4". Mr. Andrews' brings his wires in at the skylight, and you will see that there is plenty of room for electrical apparatus along the walls of the building and away from the dynamo. We therefore think it desirable that you

should adopt this plan, and shall be glad to have any comments you may wish to make upon it.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



Enclosures.

1893-12-13

Dec. 13th,

3

W. D. Rich, Esq.

Central Edison Electric Ill. Co.

Hazleton, Penna.

Dear Sir:-

We have your letter of the 9th, inst. in regard to boiler plan of Middletown and Piqua. We believe that this style of setting is to be used only where Bituminous Coal is burned, we note your objections to this setting however, and shall be glad to have you use your own judgment as to the way in which it should be done.

Very Truly Yours,

Thomas A. Edison, Constn. Dept.

By



1883-12-13

December 13th. 3

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 11th, inst in regard to the extension of the Tiffin plant, and during the past few days have received all your telegrams urging upon us the necessity of shipping the material at once.

Your ideas as to the amount of work necessitated by this extension are altogether too small. It will be impossible for us to obtain the copper under two weeks, and in view of this fact we have wired you that we cannot keep our men there, as we understand from our Superintendent that all the pole lines at Tiffin will be finished on Saturday next.

We have wired you to-night that the cost of this extension will be \$3,748.17, and we beg to enclose herewith our estimate for performing the work and supplying the material. Upon its acceptance, we will immediately take active steps to make the desired addition to your plant.

Mr Rich is altogether mistaken when he states that it will not increase the cost of feeders. The extension necessitates a new feeder and consequently additional electrical apparatus in

1883-12-13

2

the inside of the station.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

Enclosure

1883-13-13

December 18th. 3

M. C. Rollnap, Esq. Treas.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We have your letter of the 12th. inst., asking us for a list of prices for which we will furnish tubing and wires for service, and in reply we beg to state that we will supply you with this material at cost price.

The way the Fall River and Lawrence Company did was simply to give us an open order to supply them with as many services as were necessary, and we billed the material to them at the rate as stated above.

If you will give us a similar order, we shall be very glad to furnish you with whatever services you require. They certainly should be put in at once, as it will save a great deal of labor in the future, when you might possibly have to contend with heavy frost.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-13

December 13th. 3

Messrs. Bergmann & Co.

203 Avenue B, City.

Dear Sirs:-

In relation to the attached letter from Messrs. Powers & Weightman, do you not think it would be a paying business for you to carry a stock of say 1,000 lbs. of this material, for the purpose of supplying our numerous central stations with what they require? They would consume considerable in the course of a year, and inasmuch as you could purchase it for fifteen cents a pound and sell it for twenty five cents a pound, the enterprise would remit good profit. Let us know if you will do this.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*aes*

Enclosure.

1893-12-13

December 13th. 3

Paul D. Nyar, Esq.

Tremont House,

Galveston, Texas.

Dear Sir:-

We have your interesting letter of the 11th. inst., and in relation to your obtaining options on lots we think it would be a good idea for you to get exact sizes and prices of as many lots near the center of each town as you can.

In regard to the amount you are paying for your expenses at the present time, if you will let us know how much it is in excess of the allowance made you, we shall be very glad to credit your account with the difference.

You have apparently missed sending us a portion of your letter or else you have forgotten to sign it.

Have you ever received the new form of special report, which we sent you about a month ago?

Mr Insull sailed for Europe yesterday to be gone until the latter end of January. We presume you received his letter telling you to go home for Christmas.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. E. G.*



1893-12-13

December 18th.

3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.

65 Fifth Avenue, City.

Dear Sir:-

I have the pleasure to hand you herewith account amounting to \$7,788.74, being amount due my Construction Department, also account amounting to \$1,115.00 for sundry amounts paid by me on the Light Company's account.

In addition to the above there is the amount expended by me on electric railroad experiments, for which you already have my account, amounting to \$36,541.80, and also about \$25,000 expended by me at the Edison Machine Works in improving your dynamo machines, with the result of decreasing the cost on some of the types of dynamos about twenty five per cent, and increasing the number of lights obtained from such machines about forty per cent.

With relation to my railroad experiments, inasmuch as the inventions in connection therewith have been transferred to the Electric Railroad Company, I presume my accounts in relation to this matter must stand over. Although by stating this I wish it to be clearly understood that I consider that I have a valid claim

1883-12-13

2

against the Edison Electric Light Company for the amount I have expended in this connection.

As to the cost of the dynamo experiments, in consideration of the kindness shown by the Light Company in carrying my stock for me, it is not my intention to ask them to reimburse me to the amount referred to, more especially as the rendering of account of this character is usually the cause of great irritation.

In this connection I may mention that I am now experimenting with the object of increasing the capacity of the central station dynamo but inasmuch as my means are limited I cannot conduct the experiments on any such scale as the importance of the matter would warrant, and I would urge upon your Directors the necessity of placing at my disposal \$30,000. for this purpose. Of course it is very difficult to estimate the exact cost of such experimentation, and I mention this amount as a limit and not as giving an indication that the experiments would cost as much.

I shall be glad if you will arrange to pay the small account due (\$1,118.60), and my Construction Department account (\$7,700.74) at an early date, inasmuch as the latter must of necessity receive additions or deductions from month to month.

I would suggest that the payment of \$5,000. on account

1893-12-13

3

be made immediately.

Very truly yours,

J. A. E.  
y.

Enclosures.

1983-12-13

December 13th, 1883,

F. S. Hastings, Esq. Treas.

Dear Sir:-

In relation to the attached note, under date of November 18th. for \$3,000., payable 90 days from date to our order, please make same payable to the order of Thomas A. Edison, and debit our account with the amount.

Very truly yours,

The Edison Machine Works,

By

*A. E. S.*

1893-12-13

Dec. 18th, 1903

J. F. Bump, Esq. J. P.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 10th, inst. in reference to wiring. We are of the opinion that you have made a great mistake by pursuing the course suggested by Mr. Stuart. Our experience has been, that it is a fatal error for the local Company to have anything whatever to do with the wiring.

In regard to lighting blocks, 44, 46, 48, and 50, we to day are in receipt of a telegram from Mr. Stuart, asking us to light blocks, 44, 46, 47, 48, but he makes no mention of block 50. We will send to night an estimate for this work, in accordance with Mr. Stuart's telegram, and if the sum is satisfactory we will order the material and have the work commenced without delay. You must understand that it is a very unsatisfactory thing to do work of this kind without having an estimate accepted in the regular way. We have no doubt whatever but that our bills would be satisfactory, and accepted when presented to you, if we were to do the work upon that basis of understanding. But in as much as it is not the regular way of doing business,

1883-12-13

2

we prefer to submit an estimate, and upon its acceptance we  
will proceed to make the desired addition to your plant.

Very Truly Yours,

Thomas A. Edison, Constn., Dep't,

By

ALJ

1883-12-13

December 13th, 3

Spencer Sorden, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

We beg to acknowledge receipt of your favor of the 11th. inst., and in reply would call your attention to the fact that when you were in New York last Worcester was one of the towns of which you made a memorandum that you were to attend to in regard to obtaining options on lots. In order that it may not again escape your memory, we send you by this mail another chart of this town marked with a circle, within which it is desirable to obtain these options. Upon receipt of this information, we will prepare and submit estimates.

Owing to the press of work, and also on account of having to re-model the Gayorhill estimate, we have not up to this writing been able to dispatch it, but it will be forwarded to you to-morrow and Portland we will send you early next week.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

1883-12-13.

Dec. 13th, 3

W. H. Winant, Esq.

Caro Armour Bros. Banking Co.

Kansas City, Mo.

Dear Sir:-

In further reply to your letter of the 4th, inst., we beg to say that we will require a lot 50 x100, for Central Station purposes. As the ground within the red circle on map sent you is so valuable, we would suggest as the next best point, to obtain a lot the northern portion, of blocks 48, and 49, and blocks C, 7, 50, and 51.

We are very much obliged for the information you gave us in reference to running our pole lines, and we send you this morning another map, which is marked in accordance with your letter and we shall be glad to know if the same meets with your approval. We also send you another map, which has been marked with lines showing the proposed course of underground conductors, in case this class of conductor is considered more satisfactory than over head wires. We would like you to examine this chart, and give us information as to whether permits could be obtained for opening up the streets upon which we propose to run. In connection with the above, we should be glad to hear from you as



as early as possible, in the mean-  
time we remain

Yours Truly  
James A. Baird, Genl. Dept.

James A. Baird, Genl. Dept.  
New York City, N.Y.

Dear Sir:-  
In further reply to your letter of the 11th inst.,  
and to say that we will supply a lot of wire for Central  
line purposes. As the ground within the red circle on map  
you is so valuable, we would suggest as the next best point to  
obtain a lot of the northern portion of blocks 22 and 23, and blocks  
24, 25, 26, and 27.  
We are very much obliged for the information you have  
us in reference to running out pole lines, and we send you this  
morning another map which is marked in accordance with your letter  
and we shall be glad to know if the same meets with your ap-  
proval. We also send you another map which has been marked with  
lines showing the proposed course of underground conductors, in  
case this class of conductor is considered more satisfactory  
than our overhead wires. We would like you to examine this chart  
and give us information as to whether parties could be obtained  
for opening up the streets upon which we propose to run. In con-  
nection with the above, we should be glad to hear from you as

[INCOMPLETE]

1893-12-13

December 13th. 3

W. H. Andrews, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

We have your letter of the 13th. inst. in reference to pressure indicators, and in reply beg to say that we differ with you very materially.

It is the easiest matter imaginable to keep this adjusted and we think that the more you work with them the better you will like them. Mr. Syngue entertained the same ideas in regard to them as you do when he first saw them, but he has since become thoroughly converted. We think you should wait and work with them awhile before you write them down.

In regard to having the conductors for inside work sent out in straight lengths, we can have any wire which has not yet been shipped out in accordance with your letter, but if it has been shipped it would hardly pay to bring it to New York, have the Ansonia people straighten it and return it to its destination.

In relation to running the 8<sup>1</sup>/<sub>2</sub> x 10 engine at 300 revolutions, we have at our Pearl Street station in this city run a 14<sup>1</sup>/<sub>2</sub> x 13 engine for seventeen consecutive days at 350 revolutions,

1883-12-14

December 14th.

3

J. F. Bunn, Esq.

Tiffin, Ohio.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 12th. inst., and in reply would say that we are very much gratified to learn that you have made arrangements with outside parties for wiring. In your management of this the only point which does not meet with our approval is your having offered a premium to people as an inducement for them to take the light. We really think you will have cause to regret this.

Yours truly,

Thomas A. Edison Constn. Dept.

By 

1873-12-14

December 14th.

3

Fréd Catlin, Esq.

108 Broadway, City.

My Dear Catlin:-

Yours received. Johnson is fixing up a hose and a dynamo giving 2,000 volts to give an exhibition. He has measured the water stream and finds it about 650 ohms, 2<sup>1</sup>/<sub>2</sub>" section per foot.

Very truly yours,

AO7

1883-12-14

*Shanekin*

December 14th. 8

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

Mr Edison has requested me to refer the attached letter in regard to regulators for the opera house at Shanekin to you, with the request that you furnish drawings for these devices at the earliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. O. Y*

Enclosure.

1883-12-14

December 14th, '83

Electric Tube Co.

63 Washington Street, City.

Dear Sir:-

We have your letter of the 13th. inst. withdrawing your bids for the street installation in connection with the following points, namely, Hartford, Haverhill, Utica and Governors Island.

In relation to Haverhill, we were on the point of sending an estimate out when we received your letter withdrawing your bid. We shall therefore be glad to receive from you at the earliest possible moment another statement showing what you will charge to do this work, in accordance with the plans you already have.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AOY*

1883-12-14

December 14th. 3

William Schwab, Esq. Pres.

Ht. Carmel, Penna.

Dear Sir:-

In relation to the extension of the pole lines at Ht. Carmel and the alterations which you desire to be made in connection with them, we wired you this afternoon that the cost of making this change will be \$641.07.

We beg to enclose herewith our estimate No. 73, P for this work, and upon its acceptance we will order the additional wire and other material and have the lines erected in accordance with same. We also send blue print showing the proposed alteration of the Ht. Carmel pole lines.

Yours truly,

Thomas A. Edison Constn. Dept.

by

A. C. J.

Enclosures.

1883-12-14

December 14th.

3

John Hoskin, Esq.

6 Lodger Building,

Phila. Penna.

Dear Sir:-

In reply to your letter of the 13th. inst. I beg to say  
that it will require two resistance boxes, and they should be  
connected so that both will move together, but detachable.

Yours truly,

T. A. E.  
4



1883 12-14

December 14th. 3

H. C. McCormick, Esq. Pres.

Williamsport, Penna.

Dear Sir:-

Will you kindly let us know if we can cross with poles through the center of blocks B and C to the northern alley in block D.

We received your telegram of this afternoon giving location of central station.

We hope to-morrow to see Mr. T. G. Detweiler, from whom we had a telegram stating he would be in New York late to-night with the papers in connection with the Williamsport contract.

Very truly yours,

Thomas A. Edison Consn. Dept.

By

A. O. J.

1883-12-14

December 14th.

3

John Ott, Esq.

202 Avenue B, City.

Dear Sir:-

Have you ever made up any more of that duplicating ink?

Yours truly,

Jae  
J.

1883-12-15

December 15th. 3

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

We beg to inform you that on the U<sup>1</sup>/<sub>2</sub> x 10 engine sent to Fall River one of the pulleys, we presume the regulator pulley, has only a 7" face, while the other has a U<sup>1</sup>/<sub>2</sub> 2" face. As we drive from both pulleys of this engine and use U" bolts in connection with them, it is necessary that both should have U<sup>1</sup>/<sub>2</sub> 3" face, and it will therefore be necessary for you to furnish us with another pulley for this engine in accordance with the above.

Yours truly,

Thomas A. Edison Constn. Dept.

By A. O. J.

Please hurry the Bill  
forward to E. J.

1893-12-15

December 15th. 3

George P. Cross, Esq.

Pascerag, R. I.

Dear Sir:-

We have your letter of the 12th. inst., and in reply  
beg to say that Mr. Edison would like to have you send him your  
photograph.

Yours truly,

D. I.

Priv Sec.

1883-12-15

December 15th. 3

U. M. Osborne, Esq.

Auburn, N.Y.

Dear Sir:-

Will you be kind enough to send us the exact dimensions  
of the lot which you note on the chart of Auburn as the Simpson lot.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. E. T.

1883-12-16

Personal.

December 15th. 3

W. D. Rich, Esq.

Hazleton, Penna.

Dear Sir:-

Will you be kind enough to let us know what your opinion is of the pole line work done at Tiffin by Hibler. Is it all good substantial work and what idea have you formed in connection with that part of the installation.

Very truly yours,

J. E.  
J

1883212-15

December 15th. 3

W. D. Rich, Esq.

Hawteton, Penna.

Dear Sir:-

We beg to confirm our telegram of yesterday's date stating that the Williamsport contract had been closed, and under same cover we send you a plan of the Williamsport station, also a sketch showing its position in relation to lot. You will notice that there are some alterations on this plan in connection with the stack. The dimensions as shown are correct, but the portion referred to is not drawn to scale. We will in a day or two send you another map drawn to scale.

We also send you a copy of our estimate, and wish you would be kind enough to fill out as accurately as you can the actual cost of each item.

We cannot as yet give you any information in regard to the number of poles you have to procure, as the course of the conductors is still under consideration and will not be finally decided until next week. It would be as well for you to go to Williamsport at once and arrange about the material for your building, and we will furnish you with the other information at the

earliest possible moment.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. J.

Enclosure, r.



1893-12-15

December 15th. 3

Frank B. Rae, Esq. Supt.

Commercial Telegram Co.

16 Broadway, City.

Dear Sir:-

In reply to your letter of the 14th. inst. we beg to say that we will give you seventeen cents apound for the wire you specified therein.

Please advise us if you will accept this offer.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*T. A. Edison*

1883-12-15

December 15th. 3

James S. Reager, Esq.

care Tiffin Edison Electric Illg. Co.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 13th, inst., and in reply  
her to say that we sincerely regret the disappointment you have  
met with in connections with discounts from Messrs. Bergmann & Co.  
We should be very glad to do all in our power to assist you in  
obtaining the discounts you desire were it not for the fact that  
we have no voice whatever in the management of Messrs. Bergmann &  
Co's affairs. Our only connection with them is that we order  
material from them for our central station work, and we never have  
occasion to order such material as is used for housewiring and  
fixtures which is always supplied by Messrs. Bergmann & Co. to  
the local parties who do the wiring.

If you will allow us to make a suggestion, we would say  
that we think you would be perfectly justified in calling upon Mr.  
Shaw to make good his guarantee, and by this means reduce the cost  
of the fixtures to the point desired.

Again regretting our inability to assist you in the  
matter, we bow to remain,

Very truly yours,

John A. Edison Genl. Supt.  
By J. A. E.

1883-12-15

December 13th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Dear Sir:-

We are in receipt of a letter from our Chief Electrical Engineer, Mr. Andrews, and in referring to a book of questions which we have gotten up in order to examine engineers desiring to obtain positions with us, he states that in each case the said applicants for positions state that a boiler should be caulked cold and that the A. & S. engine should have a small load. This is in direct opposition to the views we have entertained in regard to these subjects hitherto, and we address you in the matter that we may obtain your very valuable opinion.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883 12-15

December 15th. 3

Frank S. Marr, Esq. Treas.

Sunbury, Penna.

Dear Sir:-

We have your letter of the 14th, inst., and in reply we wish you would very kindly ask your engineer at Sunbury to send us an exact report as to the trouble he experiences with the belt in question.

We are pleased to know that you have made arrangements for a supply of water?

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. D. J.

1883-12-15

December 15th. 3

Messrs. Harris & Robinson,  
Hartford, Conn.

Dear Sirs:-

We beg to notify you that we today withdraw all estimates we have made up to this writing for the installation of an Edison Electric Light Central Station Plant at Hartford, Conn.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *A.O.T.*

1893-12-15

December 15th. 3

W. J. Jonks, Reg. Manager,

Brockton, Mass.

Dear Sir:-

In regard to supplying you with two 400 light dynamos ~~for the Brockton station and taking back one 500 light dynamo, we~~ beg to say that we will furnish these two machines with regulators, set them up, furnish and put in switches and do all work in connection with making the alteration for the sum of \$1,200.

This bid, however, does not include any change of main shaft or pulleys of engine. We believe you are in communication with Messrs. Armington & Sims in regard to this latter change and that it is your intention to do that portion of the work yourself.

We enclose herewith a plan showing the positions of the engine and dynamos after the change is made. If you desire any further details in connection with our estimate we shall be glad to supply them.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *A. O. S.*

Enclosure, 1.

1883-12-15

December 15th. 3

W. S. Andrews, Esq.,

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We have received your communication in reference to Mr. George A. Hofmeyer, and the book containing his answers to questions in regard to engines and boilers came to hand to-day.

He appears to be fairly well posted, but yet will have to learn considerable before he will be thoroughly competent.

Will you please let us know his age, where he lives and what salary he is at the present time in receipt of, also his present duties and what salary does he expect to get from us, also what is his nationality?

We return to-night the book wherein he answers the questions referred to.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. G.

1883-12-15

December 15th, 1883.

Gustav Solder, Esq. Supt.

101 Second Street, City.

Dear Sir:-

On the 13th. inst. we referred to you a letter from the Western Edison Light Company in regard to furnishing them with the new style commutators for "F" machines, and we asked you to send us the price of this commutator and state at the same time whether you thought we could concede to their wishes. We to-day find that you replied directly to the Western Edison Co. In future when we ask you to give us information, will you be kind enough to reply to our request. It is impossible for us to maintain the correspondence of this office unless we are allowed to answer communications which are addressed directly to us.

Yours truly,

The Edison Machine Works,

By

J. A. E.



1883-12-15

December 15th, 1883.

Gustav Soldán, Esq. Esq.

104 George Street, City.

Dear Sir:-

We beg to say, in reply to your letter of the 13th. inst., that we shall of course have the drawings of the engine which the Straight Line Company are now making patterns from. It may be well for you to go up to their place some time in January.

Yours truly,

The Edison Machine Works,

By

J. A. E.

1883-12-15

December 15th. 3

M. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your letter of the 12th. inst. enclosing check for \$4,000. on account of the Lawrence installation.

In regard to pressure indicators, we hope in a few days to be able to supply you with the improved style of indicator which has lately been gotten up by Mr. Edison. These are perfectly reliable and will obviate the difficulties you meet with at the present time.

In regard to using you fairly, we wish you would prepare an exact statement of all the points wherein we have been at fault, and which you consider should be righted by us. We will then be able to take proper action in the matter.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

aez

1883-12-15

December 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Coereck Street, City.

Dear Sir:-

Referring to the attached letter from Mr. W. E. Clarke, of the Lawrence Company, will you please let us know if the annature which burnt out at the Pemberton Company's Mill was defective and if the burning was due to such defect. Please answer this question to us, as we wish to write Mr. Clarke on the subject ourselves.

Yours truly,

The Edison Machine Works,

By

J. A. E.  
J.

Enclosure, 1.

1883-12-15

Personal.

December 15th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

Will you be kind enough to let us know what your opinion is of the pole line work done at Tiffin by Kibler. Is it all good substantial work and what idea have you formed in connection with that part of the installation.

Very truly yours,

J. A. E.

1883-12-15

December 13th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 13th. inst., and in regard to the lamps which Judge Bunn has requested you to have sent forward, we have to-night written Judge Bunn to send us an official order, so that the established routine of our business may be sustained.

Yours truly,

Thomas A. Edison Constn. Dept.

By

AOZ

1883-12-15

December 15th. 3

Charles T. White, Esq.

102 John Street, City.

Dear Sir:-

In reply to your letter of the 14th. inst., we beg to say that on account of the delay which has taken place in connection with supplying us with the sulphate of zinc ordered by Mr. Edison, we were obliged to place an order elsewhere.

We shall, however, be glad if you will send us a sample and also send 500 lbs. to Thomas A. Edison, care Bergmann & Co., 202 Avenue B, City.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-15

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 503,

Fall River, Mass.

Dear Sir:-

We have your letter of the 14th. inst. in regard to the belts used in connection with the "Y" dynamos at Fall River.

In regard to cementing these belts instead of riveting them, we adopted the former method of contact in order to stop the noise, but inasmuch as our experience with cemented belts up to the present time condems their use, we will in future have them riveted.

The chemicals for Fall River were shipped either yesterday or to-day, and we are hurrying Bergmann & Co. on the motors.

In regard to carrying in stock at our central stations a spare wrist pin strap and bearings for the Armington & Sims' engines, we will communicate with you later.

Yours truly,

Thomas A. Edison Constr. Dept.

By

A. O. J.

1883-12-15

December 13th. 3

W. S. Andrews, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

In relation to starting the Fall River station, are you aware that Mr Edison desires to run this installation for about a day and a half without any lights whatever being cut in on the district. Please send us a telegram stating when you will be ready to start, so that Mr Edison can go to Fall River Monday night if necessary.

Yours truly,

Thomas A. Edison Const. Dept.

By



December 15th. 1883

1883-12-15

Messrs. Hergmann & Co.

202 Avenue B, City.

Dear Sirs:-

We beg to enclose herewith a letter from Mr. Andrews which he sent to us for perusal with the request that we should send it to you when we were through with it.

We consider Mr. Andrews idea as to having an "A" and a "B" amperé meter a very good one. Would it not be advisable for us to adopt these forms in future?

Yours truly,

Thomas A. Edison Consul. Dept.

By

A. O. J.

Enclosuréd, m.

1893-12-15

December 15th. 3

Paul D. Dyer, Esq.

St. George Hotel,

Dallas, Texas.

Dear Sir:-

We have your communications of the 10th. inst.

We have to-day forwarded to Dallas the special report  
blanks and books which you require.

In relation to the amount which should be to your credit  
in this office, we are having the matter investigated and will  
advise you later.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

Decemberv15th.

3

A. V. E. Young, Esq.

39 Hancock, Street,

Boston, Mass.

Dear Sir:-

I have your letter of the 12th, inst. in reference to a position in my Laboratory for the son of Mr Adolph Satro.

I regret to state that at the present moment I have all the assistance in my Laboratory that I can use, but about the 1st. March I expect there will be an opening, when I shall be pleased to hear from you again in reference to a position for your ward.

Very truly yours,

J. A. E. J.

1883-12-15

December 15th.

3

E. Buchol, Esq.

201 Conti Street,

New Orleans, La.

Dear Sir:-

We have your letter of the 10th. inst., and regret exceedingly that a former letter which I wrote you has apparently miscarried.

The painting came to hand safely, and I can assure you that I am delighted with it. It is hanging in my office at the present time, and I consider it one of the finest pieces of work that I have seen in a long time.

Did you not make some request in your former letter in relation to a Phonograph? If you will repeat this I shall be only too happy to attend to it.

Again regretting that the transmission of my thanks has been so long delayed, believe me to be,

Very truly yours,

A. O. J.

1883-12-15

December 15th. 1883.

W. H. Dwyer, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

We have your letter of the 6th. inst. in regard to the second "H" dynamo supplied for the Flint Mills.

In regard to a hood on the armature, it is not now our custom to supply hoods, and this one was consequently shipped with a canvass head. If, however, you desire us to supply a hood, we can make one and forward it.

Our Superintendent informs us that there were no parts of this machine missing at the time it was shipped, so that if any of the parts have not been received at the Flint Mills, they must have been lost in transit. The machine which we sent you was not an old one. It would be impossible for us to supply our customers with old machines, inasmuch as the moment a machine is completed it is sold and shipped.

Yours truly,

The Edison Machine Works,

By

Sa E  
J

1883-12-15

December 15th. 3

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.

65 Fifth Avenue, City.

Dear Sir:-

We have the pleasure to enclose you herewith our estimate No. 60 for the erection of an Edison Electric Light Central Station Plant at Louisville, Ky. of 6,400 lamps capacity, and amounting to \$100,078.19, and we beg to call your attention to the fact that the Street Installation provides for 7,624 lights, or 1,224 more lights than the nominal capacity of the plant.

We also enclose estimates of daily running expenses and probable profits, and you will observe that the latter shows excellent dividends upon a capital of \$250,000.

In regard to your memorandum of yesterday's date, we beg to say that it is not our custom to sign these estimates.

If, however, you desire this one signed, I shall be glad to comply with your wishes.

Very truly yours,

Jac  
3

1883-12-15

December 15th. 3

Edison Co. for Isolated Lighting,

J. Hutchinson, Esq. Secy.

City.

Dear Sir:-

We beg to notify you that we hereby cancel all estimates  
we have made up to this writing for the installation of an Edison  
Electric Light Central Station Plant at Governors Island, N. Y.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-15

December 15th. 3

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N. Y.

Dear Sir:-

We beg to enclose herewith our estimate No. 53 for the installation of an Edison Electric light Central Station <sup>at Haverstraw N.Y.</sup> plant of 500 lamps capacity and amounting to \$10,103.24, together with map marked "A" showing the course of the mains and feeders in red and white lines.

You will observe that this estimate is for an underground installation, and that the conductors are for 550 lights.

We cannot send this estimate out without stating to you that we consider it one of the cheapest bids we have ever made for an installation of that size. Haverstraw is the most compact town we have yet had to deal with, and for this reason our estimate is a low one.

In a few days we will send you another estimate for a pole line installation, but as a permanent investment we should very strongly advise the adoption of an underground system.

At Piqua, Ohio we are now installing a plant of 500 lights capacity, and the amount of the estimate is \$16,631.49

You no doubt understand that the estimate in question was formerly



\$18,878.49, but, owing to the Piqua Company being unable to run along a certain street, the lines have had to be changed, and necessitates the increase in the amount of the estimate. It is a pole line installation.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A. J.

Enclosure:

1883-12-17

December 17th. 3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 13th, inst., and beg to congratulate you upon having at last secured a lot at Middletown.

In regard to the new location saving considerable <sup>in</sup> conductors and feeders, we beg to remind you that we already have our copper at Middletown for the conductors and feeders, based upon the assumption that the lot given us in the first place was to be purchased. The new location changes the size of some of these ~~lines~~, but to what extent we cannot at the moment tell, but we are having the figures made up, and if they accept our contract price, I shall of course look to the Middletown Company to reimburse us.. We must protest against these lots being selected after our contracts are closed.

The outcome of the Piqua and Middletown business will be that we will have on our hands a lot of wire that we cannot use possibly for some months, which will necessitate our losing interest on the money invested in it, which is a considerable item.

In regard to the buildings at Piqua and Middletown, we would say that our engineer in computing the cost of the Middletown building calculated upon putting up a brick structure instead of

1883-12-17.

2

framo, as is mentioned in the estimate. It is our intention now to erect a brick building at Middletown, but the price we quote for the Piqua building is insufficient to admit of our adopting the same course there. We will erect a brick building at Piqua for the same price as we charge for the Middletown building, namely, \$2,210., or \$400. above the contract price.

In regard to the progress we are making in Penna., we beg to say that the Mt. Carmel building is finished, except the inside, the Bellefonte building is in the same condition and the Hazleton building will have its roof completed to-night. We have done quick work in these places, notwithstanding the fact that the local people appear to be unable to see it.

We will have an expert wireman in Bellefonte in the course of a few days.

You had better advise us by wire of your decision in connection with the brick building for Piqua.

Very truly yours,

Thomas A. Edison Conain. Dept.

By

T. A. E.

7883-12-17

December 17th,

3

M. G. Trumbane, Esq.

Easton, Penna.

Dear Sir:-

In relation to your postal card asking about my alleged electrified health indicator, I beg to inform you that I have no such invention, and that the device which is manufactured and sold as "The Edison Health Indicator" is, in my opinion a complete fraud.

Very truly yours,

S. Q. E.  
J

1883-12-17

December 17th. 3

James A. Blair, Esq.

Commercial Bank,

Tiffin, Ohio.

Dear Sir:-

We have your letter of November 30th., and in reply beg to say that we were quoted special rates over the Lackawanna Fast Freight Line to Tiffin, and these rates were obtained for us by our freight broker, who got quotations from the Star Union line, but as they were not as satisfactory as the former, we of course would not accept them. We would like very much to have been able to oblige you and ship our material by the Star Union line, and, at the time the subject was first brought up, we stated that if your Company would agree to pay the difference between the Star Union rate and the special rate quoted us by the Lackawanna Line, we would ship by the route you desired. You of course could not expect us to do more than this.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1893-12-17

December 17th, 1893

Messrs. Bergmann & Co.

262 Avenue H, City.

Dear Sirs:-

We have your communication of the 15th, inst. in regard to sulphate of zinc.

In reply we beg to say that Messrs. Powers & Weightman furnish sulphate of zinc which is far superior to that which Mr. Chinnock purchases. Mr. Chinnock gets this material from Messrs. John & Pink. We ordered a large consignment of zinc from the latter people which has proved absolutely useless, as it contains a quantity of iron. It must be distinctly understood that you will buy from Messrs. Powers & Weightman the chemically pure brand and never change or try to get cheaper stuff, as the chemically pure brand is the only kind that we can use.

We do not wish to guarantee anything further than that we ourselves will purchase our sulphate of zinc from you, provided you keep as good a brand as can be gotten elsewhere. Furthermore, we will instruct all local companies to obtain this material from you, and such instructions will be sufficient for you to control the trade.

Please let us hear from you as soon as possible, and

1113-12-17

2

also inform us as to when we can place our first order with you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-17

Dec. 17th, 8

H. C. Bolknapp, Esq. Treas.

Edison Elec. Ill. Co.

Newburg, N. Y.

Dear Sir:-

Will you kindly let us know the exact condition of the Newburg building, we wish to approximate as closely as possible the time when we can send our wiring experts to commence work on the interior of the Station.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't,

Ny

*AOJ*



1893-12-17

December 17th.

3

Deutsche Edison Gesellschaft,

Berlin, Germany.

Dear Sir:-

I have your letter of the 3rd. inst., and in relation to dynamo Webeg to say that our Company here have stopped selling 25 light machines, as they find it does not pay to send a man a great distance and have him remain there some time.

The 50 light dynamo is the lowest they sell, and we are not going to make any more 25 light dynamos. The price charged you for the last 50 light dynamo sent, namely, \$250. P. O. B. New York, is the lowest figure I can place this machine at. It seems to me that you ought to be able to make them much cheaper over there.

In regard to our accounts, I mailed you a few days ago a statement showing your indebtedness to me to the extent of

\$2,590.95. Your remittance you mention in your letter of the 3rd. inst., namely, \$495. has not yet been received by me, but will I presume come to hand in a day or so. This leaves \$2,101.65 still due me by you, and I wish you would very kindly, upon receipt of this letter, send me a cable remittance for the amount, as the

prices which I gave on your material will not admit of my carrying  
the accounts so long on my books, and I require to use the money.

Very truly yours,

*206*

1883-12-17

December 17th. 3

W. L. Garrison, Esq. Treas.

Boston, Mass.

Dear Sir:-

Referring to our letter of the 5th. inst., with which we enclosed statement of account against your Company, will you very kindly send us a check for the amount, namely, \$1,827.42, as we require to use the money very urgently. We should like to receive this check before Friday next.

Very truly yours,

Thomas A. Edison Constn. Dept.

By 

1883-12-17

December 17th. 3

Messrs. Harris & Robinson,

Hartford, Conn.

Dear Sirs:-

We have your letter of the 15th. inst., enclosing a notice of a meeting to be held in Danbury this evening. We trust you will advise us of the result of this meeting will have in connection with the acceptance of our estimate, as of course you understand that to-morrow it expires, and we would like to furnish you promptly with fresh estimates, providing you need them.

Yours truly,

Thomas A. Edison Constr. Dept.

By

A. O. J.

1883-12-17

December 17th.

3

M. S. Hastings, Esq. Treas.

Edison Electric Light Co.

City.

Dear Sir:-

Referring to the attached correspondence from Mr. Dwellley, we beg to say that 150 sixteen candle lamps would be plenty to send on to Fall River at the present time. If these local companies were permitted to do so they would put in sixteen candle lamps everywhere, whereas not one out of every ten could toll the difference between the ten and sixteen candle power lamp were they placed side by side. They should not be permitted to distribute sixteen candle power lamps over the Fall River system as they please, and we strongly advocate only supplying the consumers with a limited number.

Very truly yours,

Thomas A. Edison Consth. Dept.

By

*A. O. J.*

Enclosure.

1883-12-17

December 17th.

3

James Harris, Esq. Secty.

Hollefonte, Penna.

Dear Sir:-

We have your letter of the 14th. inst. in regard to a wireman, and in reply beg to say that we hope in a few days to have our expert at Hollefonte to take charge of this work. in the interim you might select a local plumber whom you think would be competent to take charge of this work, after being properly coached by our expert. This would avoid any delay in the selection of a man after our expert arrives in Hollefonte. We presume that you understand that it is our policy not to have the local company take any part whatever in the wiring of buildings for the Electric Light. The parties who have their buildings wired will be responsible for the cost of same to the plumber, whom our expert will teach to do the work. He will receive all necessary instructions so as to make a regular business of it, and by this means the local company will avoid any trouble with parties in connection with the non-payment of their bills for wiring and fixtures. This course we have adopted in other places, and our experience has been that it is the only proper method of conducting that branch of the business. Were the local company to

1883-12-17

2

do the wiring, after they had supplied the customer with light, in a great many cases, the said customer would refuse to pay his bill for wiring and fixtures, entertaining the idea that the local company would prefer retaining him as a consumer of light rather than take the fixtures out of his building.

In regard to lamps, we shipped your order on Saturday.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A.O.S.

1883-12-17

December 17th. 3

Charles P. Lyon, Esq .

New American Hotel,  
Circleville, Ohio.

Dear Sir:-

We have your letter of the 15th. inst., in regard to furnishing you local parties with information. We trust you will not attempt to quote any prices in regard to an electric light installation. It is impossible to approximate the cost of an installation in any town with safety, and we prefer our canvassers to discuss these subjects as little as possible.

We have pleasure in sending you by same mail the Bulletin you desire.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. T.



1883-12-17

December 17th. 3

Messrs. Markle & Hall,  
33 Congress Street, W,  
Detroit, Mich.

Dear Sirs:-

Under same cover we send you a map of Grand Haven,  
Mich. In addition to supplying us with information in accordance  
with the annexed form, will you be kind enough to examine care-  
fully the course of our proposed street installation, which is  
shown on the map by red lines. If there are any obstructions,  
such as trees, telegraph or telephone poles, which would prevent  
our adopting the course we propose, we should be glad to have any  
suggestions you may think desirable to make in regard to alter-  
natives. The red circle on the map shows that part of the town  
within which it is desirable to obtain a lot, and the best loca-  
tion is as near the center of the circle as possible.

Very truly yours,

Thomas A. Edison Constr. Dept.

By



1893-12-17

December 17th. 3

M. C. Holknap, Esq. Treas.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

Will you kindly let us know the exact condition of the Newburgh building, as we wish to approximate as closely as possible the time when we can commence work in the interior of the station.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

A. O. J.

1883-12-17

December 17th.

3

W. A. Croffut, Esq.

359 West 23rd. Street, City.

Dear Sir:-

In relation to your communication of the 16th. inst.,  
I beg to say that Mr Edison leaves town to-morrow evening for  
Fall River. He may return the latter end of the week.

Very truly yours,

J. G.  
P. S. c

1893-12-15  
New York, December 18th. 1893.

*Bergmann*  
85 Fifth Avenue,

My Dear Insull:-

I should have written you last week, but I thought it better to wait until one Saturday had passed before doing so, in order that I might give you a history as to how I got through the "black day". On Saturday morning I had \$4,500. in the bank altogether. I went down to Hastings and got \$1,000. from him. Out of this I paid Kruesi \$1,000. and gave Bergmann \$700., as they were both very hard up. I paid the Machine Works pay-roll and contracts together with our office pay-roll, also met a Machine Works' note, and yesterday I was advised by the Germania that the \$3,000. note, which I got from Hastings last Friday, had been discounted by them, so on Monday morning I came out with \$4,348. in the bank, which will run me through all right this week.

Mr Edison went to Fall River to-night, and the station is to be started to-morrow, and that means a remittance of \$20,000. from them, Mr Edison will see that a check is sent to me promptly.

We closed the Williamsport business on Saturday last. As you understand we sent them the forms of agreement and one of those Mr Edison signed before it left the office. The Williamsport people closed the contract on the old basis, which was a point that Mr Edison desired to avoid. The new canvass which we prepared is ready, and they have a chart with the lines marked in accordance with this new map, and we are now trying to have

1883-12-18

than substitute it for the old one. The matter will be decided in a day or two, and also in a day or two they will remit us the first payment, which is a matter of about \$13,000.

Immediately after you left here, I wrote again to Lord for that remittance of \$5,000., and on Friday received a check from him for \$4,000., and he said he would remit the balance as soon as he got it.

I wrote to Garrison yesterday to send us a check for the \$1,800. still due upon Brockton, and hope to hear from him before Saturday.

I have to meet about \$4,300. on Saturday, but will have no trouble whatever in doing so, as prospects are good.

CANVASSERS. Dyer has completed his canvass of Galveston and is in Dallas, and from that point he goes to Sherman. Wilbur has completed Atlanta and is in Mobile, from which point he goes to Knoxville. Cooke is still with Markle & Hall, and Lyon is just about through with his canvass of Circleville, Ohio, after which he returns to Pennsylvania. I will see that your instructions as to the disposition of these canvassers after January 1st. are carried out. We certainly will require more help in this line.

There were some parties came up here from a town in Pennsylvania near Hazleton. Shaw had never been near the town, nor approached any of the people in regard to lighting. The gentlemen of whom I speak had been around visiting Shamokin and

1873-12-18

so I deposited it in the Germania, and taking the check payable to my order, signed by Mr. Edison, I went to Hastings, who very kindly allowed me to draw \$3,000, payable to the Edison Electric Light Co., and which he refunded me by giving me his checks for the amount required for the above purposes. I was still \$400. short, notwithstanding the fact that it was in the bank, and this \$400. was for Pruesi. Hastings could only let me have \$300., and he required \$700. in order to meet his payroll. I got Hastings to go to the Bank of the Metropolis with me where we saw the Manager, and we arranged with him that I should sign a check, "Thomas A. Edison, by A. O. Tate", for \$400., the Edison Electric Light Co. by Mr. Hastings to guarantee the ~~check~~ signature, and they would let me have the money. This I did and got through the day without any disastrous results more than a slight headache. In further discussion of money matters, you will no doubt recollect that the contract we made with the Fall River Company differs materially with any of our other contracts. The first payment in connection with this installation was ten per cent upon the signing of the agreement, twenty per cent on October 25th., twenty five per cent when the installation was ready to supply light and the remaining forty five per cent when the installation had been in condition to supply light thirty days. The above mentioned ten per cent, namely, \$4,180.00, was paid upon the signing of the agreement; about October 26th. two other payments of \$4,000. each were made by the Fall River Company, the same being the twenty per cent referred to, and on the 27th. November Dwolley sent us his check for \$8,500.

1883-12-18

which was a portion of the twenty five per cent that should have been paid when the installation was ready to supply light.

I will receive from Dwelley to-morrow a check for \$4,000., and this is the only payment that will be made on account of this installation until the 16th. January, when there will be \$17,128.00 due. You see by the arrangement made with these people that the greater part of the money, instead of being paid in when the installation was ready to supply light, does not come to hand until we have run it for thirty days.

Now in regard to our contract with the Ansonia, we owe them on account of wire supplied for Fall River \$4,950.20, and seventy five per cent of that amount is \$3,718.05, which consumes the \$4,000. that will arrive to-morrow. I do not yet know the amount that the Williamsport people intend remitting. They owe us \$18,000., and I fancy it will be at least half of that.

I shall go to Hastings to-morrow and tell him that I want a good remittance on account of the Machine Works on Saturday, and that I simply must have it. I can pull through all right, but will have to give Babcock & Wilcox a note to-morrow for the amount due them.

I have a note due on the 12th. January for \$2,309., which is one we issued to Bergmann & Co. I have another on the 24th. for \$1,240., and there is nothing then until the 17th. February, at which time there is a small one for about \$520. If I bring a Babcock & Wilcox note in about the 1st. February it will be all right, as at that time we will have been in receipt of the last payment on account of Fall River, and can meet it without trouble.

1883-12-18

Tiffin station will be ready to start up in about two weeks, which will remit a payment of \$9,000. from that source. MT. Carmel will be ready to start at almost the same time, so you see as long as Mr. Edison is within reach I will not get left in the money line. It will be a very frigid day when he leaves me in the same box as he did last Saturday, as I shall take care I have plenty of checks so long as there is money in the bank to sustain them.

On the 10th. inst. we billed ~~AM~~ the Societe Industrielle with \$787. for material shipped them, and they now owe us \$1,332.21. We billed the London Company with \$450.50 on the same date, which makes the amount due us by that corporation \$928.50. This information I believe you desired transmitted to you.

In regard to the Williamsport, I forgot to mention when speaking of it that we will not issue any orders in connection with that plant until the full amount of the first payment has been made. We have a full list of the stockholders, and are to-night going through Bradstreets to find out how they stand.

CANVASSERS? I think I told you in my last letter that Cooke had finished with Markle & Hall, but we were requested by them to allow him to remain a while longer in order to complete a canvass of Adrian, Mich. He will be through there to-morrow, and as the Light Company is anxious to have a report on Meriden, Conn., we will send him to that point, after which he can canvass Rondout and Kingston, N. Y. Lyon is at Pottsville, Penna. Dyer is on the point of leaving Dallas for Sherman, and Wilber is making a canvass of Knoxville, after which he goes to Danville, Va.



1883-12-18

MACHINE WORKS. It is pretty hard work to get Soldan to turn out machines quickly, but we must give him credit for having made a good shipment on Monday last. He forwarded the Bellefonte, Hazleton and Mt. Carmel machines on that date, which were two "Y's" each for the first and second places and two "S" machines for the last. The Newburgh machines go forward on Friday next. The Lawrence Company have ordered from us two more "H" machines and another 14<sup>1</sup>/<sub>2</sub> x 18 engine. The former were shipped to them on the 22nd inst. and the engine goes forward to-morrow, together with the bedplate and washers. The bolts are already in the foundations which Rich left prepared. I received to-day a letter from Lord, which, is to say the least amusing. You no doubt remember what a disjointed correspondent he is and that it is almost impossible to gather anything from his letters. He kept harping so long upon the string of "treat us fairly", that I at last wrote to him asking him to submit to us a statement of all the points wherein he considered we had failed to live up to our contract. In his letter received to-day he states that we must consider them (the Lawrence Co.) imbeciles, and complains about us having supplied him with 10" bolts, about the delay to his dynamos and the tardy manner in which his meters are being supplied. In reply to Mr. Lord, I informed him that we were using 10" bolts in the same connection with other installations, where they gave perfect satisfaction, and we saw no reason why they should not prove satisfactory at Lawrence. I stated that we sincerely regretted being unable to control Messrs. Bergmann & Co's affairs,

1893-12-18

and that we were doing all in our power to make them hurry forward his material. In connection with dynamo's, at the time he wrote his letter, which was on the 22nd. inst., there must have been one "S" machine at the Lawrence depot, as it was shipped from here on the 18th. inst. On the 17th. inst. he gave us an order for two "P" machines and they went forward on the 23rd. On the same date he ordered the large engine, and it goes to-morrow. We called his attention to these facts without commenting upon them, and in relation to his insolent remarks about competent parties managing the business at this end of the line, I stated that we would be greatly obliged if, in future, he would kindly suppress any suggestions in regard to the manner in which our business should be conducted. You cannot imagine what a "damned" impertinent letter he wrote. My reply is very mild and has not yet gone out of the office, and to-morrow I will show it to Mr. Edison. I made no further statements in it, except as detailed above, but if Mr. Edison considers this unnecessary, I will not send the letter. I wish you were here at the present time to reply to it.

In regard to Kruesi, he is as usual in a chronic state of "hard upness". The Illuminating Co. owes him about \$3,000., and he cannot "strike" them for a cent. I have had to carry him through ever since you left.

Last Saturday Hastings had to give Bergmann considerable money to help him out, but this Saturday I am going to make him give me a good payment, and also make a good payment to Kruesi.

We have heard nothing so far about the Danbury affair, and our estimate in that connection expired some days ago, and they have not asked us to make a new one. I see by the papers that about \$16,000. of the Danbury stock has been subscribed.

Perry came in to-night in regard to Mr. Hatchelor's stock, and he told me that he had been unable to do anything since you left, and I have embodied this in a cable to you.

I think I have exhausted all points of interest, except one, this point is our friend Mr. Gilmore. It is now only about ten o'clock, and notwithstanding the fact that he has had a regular "picnic" since you left, he is growling like a bear.

Trusting you are enjoying yourself, I am,

Very truly yours,

A. M.

1883-12-18

Piqua

Dec. 18th,

3

A. Stuart, Esq. Sec.,  
Edison Installation Co.,  
Cinn. Ohio.

Dear Sir:-

We beg to enclose herewith form of agreement in duplicate, for the installation of the Piqua plant, in accordance with our estimate No. 45F, and the accompanying exhibit marked "B" showing the course of the conductors, and which is a duplicate of the map that was furnished you at the time the estimate above mentioned was submitted and accepted.

In regard to the communication which we have received recently, stating that it will be impracticable for us to run along Main St., we would say that the necessity of making this change in the course of our conductors, will increase the cost of the Piqua installation by \$2,752. For this reason we send you herewith two more forms of agreement, for the installation of a 500 light plant amounting to \$18,631.49 together with map marked "C" and showing the course of the conductors which are so arranged as to avoid running along Main St.

1883-12-18

2

In relation to the latter chart we would call your attention to the fact that it includes 150 lights, more than the old one, the average burning of the Piqua installation is at least 4 hours. If you sell light in Piqua for 1 cent, those extra 150 lights will themselves bring you in a dividend of \$2390.62 for the first year, which is within a small amount of the cost of installing them. If it is your intention to sell light for 1 instead of 1 per hour, those 150 lights would bring you in a dividend for the first year of \$2,908.73 or \$117 in excess of the cost of their installation.

If after considering the above facts you desire to accept our bid, in accordance with the map marked "C" which is the one including the lights above referred to, please have executed the forms of agreement sent you herewith, and specifying the amount of the contract, which is \$16,031.40. Also please be kind enough to send us a check for \$6008 which is 25 per cent. of the amount of the increase.

The Piqua Co. of course understand that in any event, we look to them to obtain for us the necessary permits to run our conductors in accordance with whichever chart they accept, and we do not hold ourselves responsible for any failure to obtain such permits that would prevent our erecting poles, and running lines.

1883-12-18

3

In relation to these matters we shall be glad to hear from  
you at the earliest possible moment, as we desire to order for-  
ward the additional wire if our chart "C" is accepted.

Very Truly Yours,

J. A. E.

1883-12-19

Piqua

December 18th.

3

P. B. Shaw, Esq.

Cincinnati, Ohio.

Dear Sir:-

We beg to acknowledge receipt of your telegram of the 18th inst. instructing us to put in a brick building at Piqua and accepting our price, namely, \$2,210., or \$800. over and above the contract.

We have given instructions to have the work done accordingly.

Yours truly,

Thomas A. Edison Constn. Dept.

By A. P. J.

1883-12-19

Electric Pen

December 16th. 3

John Ott, Esq.

292 Avenue B, City.

Dear Sir:-

Please make up about two gallons of the duplicating  
ink, and notify us when it is ready.

Yours truly,

John  
J



1883-12-19

December 18th. 3

H. O. Stratton, Esq.

35 Oliver Street,

Boston, Mass.

Dear Sir:-

Thank you for your letter of the 13th. inst., and in reply  
beg to express my regret at having overlooked your former letter.

The duplicating ink is being prepared, and will be sent  
you in the course of a few days.

Very truly yours,

*J. H. S.*

1883-12-19

December 19th, 1883.

Gustav Soldan, Esq. Supt.

104 Coorck Street, City.

Dear Sir:-

Below we give you a list of the machines we desire to have shipped on the days specified:-

Two "H" Machines on the 24th. prox. and two "Y" machines on the 24th. prox. to Newburgh, N.Y.

Two "Y" machines on the 24th. prox. to Bellefonte, Penna.

Two "Y" machines to Hazleton, Penna. on the 24th. prox.

Two "S" machines to Mt. Carmel, Penna. on the 24th. prox.

These machines must be shipped absolutely on the dates named, and if there is any delay in the Testing Department, we wish you to report it at once to us and we will have it remedied. Unless these dynamos go on the date specified we will be seriously delayed in our work, and you must do everything in your power to have them forwarded in accordance with the above.

We send you an order to-day to ship two "H" machines to Lawrence. These should be forwarded on Saturday next the 22nd. prox.

Yours truly,

The Edison Machines Works,

By

*Sale*

1883-12-19

December 18th. -3

Spencer Gordon, Esq.

P. O. Box 3,311,

Boston, Mass.

Dear Sir:-

In relation to real estate in Portland, we beg to say that if it is possible to obtain options in the blocks bounded by Brown & Elm Streets on the one side and Cumberland and Congress Streets on the other it would make a considerable saving in the amount of copper to be used. A lot in the block bounded by Brown, Cumberland, Probol and Congress Streets would be preferable.

We will forward the Portland estimates upon the assumption that the central station will be placed upon one of the lots selected from those already submitted, but if we can obtain a lot within the area mentioned above it will make a great saving.

Very truly yours,

Thomas A. Edison Conatn. Dept.

By 

1813-12-19

December 19th. 3

Garant C. Sims, Esq.

Providence, R. I.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 18th. inst. in reference to the valves of the 14<sup>1</sup>/<sub>2</sub> x 13 engines being bored for five inch steam pipe.

We also note your remarks in reference to our Piqua and Middletown engines.

We will send you by to-morrow's mail a list showing the dates we desire the engines you have under construction for us shipped.

Many thanks for your statement in regard to caulking a boiler, also about the load of your engines. Do you consider it necessary for us to carry a spare wrist pin strap and bearings for each one of your engines that we have installed at any station.

Very truly yours,

Thomas A. Edison Const. Dept.

By *W. A. G.*

1893-12-19

December 19th, 1893.

Gustav Soldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

Are you doing anything about paper belts? Please send  
us the address of the party from whom you got the sample pulley  
for test.

Yours truly,

The Edison Machine Works.

By

J. A. E.  
J.

1883-12-19

December 19th. 3

W. D. Rich, Esq.

Waxloton, Henna.

Dear Sir:-

We are in receipt of a letter from the Treasurer of the Lawrence Company stating that they want two more "H" machines and the other 14' 2 x 13 engine, specified in our contract with them.

Did you put in a foundation at Lawrence for this engine?

Yours truly,

Thomas A. Edison Constn. Dept.

By *AE*

1883-12-19

December 19th. 3

W. D. Rich, Esq.

Hamletton, Penna.

Dear Sir:-

We enclose herewith a number of recommendations from Mr. Garret Bogert who desires to obtain a situation with us setting up machinery. He has been connected with the Straight Line Engine Company, and he has some excellent testimonials. If you require the services of such a person, please let us know, and return the enclosed papers, obliging,

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

Enclosure, a.

1883-12-19

December 18th. 3

E. H. Ford, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In reply to your letter of the 15th. inst. we beg to say that the other "S" dynamo with the extra 10" pulley was shipped to you yesterday.

We have sent the 12" and 10" pulleys, because we think you will find it advisable to change after running the 10" pulleys for a time.

We can forward the two "H" machines early next week, and we have ordered the 14<sup>1</sup>/<sub>2</sub> x 13 engine, which we think can be supplied promptly, but in regard to this matter we will write you in a day or two.

Yours truly,

Thomas A. Edison Genl. Mgr.

By

*aes*



1883-12-19

December 10th. 3.

M. O. Polknap, Esq.,

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 17th inst., and in reply would say that the necessary services for Newburgh have gone forward.

Messrs. Bergmann & Co. will give you prices for sockets and fixtures.

In regard to house wiring, we would impress upon you the fact that it is very unwise for your Company to have anything whatever to do with this kind of work. When you are ready to have house wiring done we can send an expert to Newburgh, who will teach a local plumber or some such suitable person how to do it.

Our experience has been that if the local company takes in hand such work as this the parties who have the wiring done will not, in a great many cases, pay their bills for wiring <sup>before</sup> ~~until~~ the light has been furnished, and then <sup>they will</sup> raise numerous objections to paying these bills, entertaining the idea that the company would prefer retaining them as consumers and allow the bill to go unpaid, rather than take the fixtures away from them. If, on the other hand, those parties are responsible for the amount of their

1883-12-19

2

wiring bills to some person who has no connection with your Company whatever, except having your approval to do this kind of work, it will be impossible for the consumer to enter into a discussion with your Company as to the payment of their wiring bills.

We advocate this course as a protection to your Company, and would strongly advise your adopting it, inasmuch as it has been perfectly successful in other places, and in two or three towns where the local companies disregarded our advice on this subject, they have had trouble in the manner herein set forth.

As soon as you have applicants enough to warrant our sending on a man there, we will do so.

Yours truly,

Thomas A. Edison Constn. Dept.

Ny.

*as*

1883-12-19

December 18th. 3

Messrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

We have your letter of yesterday's date in relation to the charge we made against your Wiring Department of \$302.34 for work ordered at Shumokin by your wireman, Mr. Johnson, and also comprising certain charges which the Shumokin Company deducted from our contract for the non-performance of work, in connection with the erection of pole lines.

We have read with interest your letter to the Shumokin Company, and we cannot suggest any other way in which the matter can be discussed. We did not send you a bill for \$302. in order to effect a compromise, but we consider that, in order to make an equitable division of the loss sustained by us all on this plant, we are perfectly justified in asking you to bare that portion which directly concerns your work at that point. We have forwarded your letter to the Shumokin Company, and we have no comments to make upon any discussion you may have with them, but our loss on our own work has been so very heavy in connection with this installation that we cannot consider any proposition which will have in view the placing to our credit of a less amount than \$302.34, in accordance with the bill sent you on the November

1883-12-19

2

20th.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*aos*

we have  
nish goods to the Swiss Company, in ac-

1883-12-19

Dec. 19th,

3

Messrs. Borgmann & Co.

292 Ave. B. City.

Dear Sir:-

Replying to your letter of the 12th, inst. in regard  
to discounts for <sup>Mr. Gaura</sup> ~~the~~ ~~Swiss~~ Co., we beg to say that on Sept. 10th,  
~~we~~ <sup>we</sup> wrote these people telling them you would agree to fur-  
nish goods in your Catalogue to them at 30 per cent discount,  
excepting Sockets, Cut-Outs, and Switches, and on these as an  
extra inducement, we informed them, you would agree to give a  
discount of 32 per cent. We informed them that your charges  
for boxing and cartage on same, would be extra. These proposals  
we extracted from a letter which you sent us, agreeing to fur-  
nish goods to the Swiss Company, in accordance with the above.

Very Truly Yours,

J. A. E.

1893-12-19

December 19th. 3

C. H. Cooke, Esq.,

Cooke's Hotel,

Ann Arbor, Mich.

Dear Sir:-

We send you to-day a supply of canvassing blanks, which we desire you to use in future when submitting your canvass to this office.

When taking notes along the streets you may use a book, and during the day prepare these sheets, which are to be sent on here. We also send you herewith a sample sheet showing how these reports should be made out.

For your further information we will give you the following explanations:-

The column on the canvass sheet marked "Width in Feet" means width of building. Where buildings are isolated the distance between them should be passed as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass sheet. Every sheet must be numbered with the number of the block and the name of the street, and, when your canvass is completed, you should pin the four or more different

1883-12-19

2

sheets show <sup>map</sup> the four faces of each block, and then on a separate piece of paper make an index of the canvass in the follow manner:-

BLOCK.	PAGES.
1	1-2
2	3
3	4
4	5-11

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours truly,

Thomas A. Edison Constn. Dept.

By *Q. O. J.*

Enclosure,

1883-12-19

December 18th. 3

Charles F. Lyon, Esq.  
New American Hotel,

Circleville, Ohio.

Dear Sir:-

In relation to your canvass of Wellsborough, Penna. you give the number of lights burning in the hotels by stating that they will average so many for so many hours. We desire that you shall give detailed specification of each light burning in the hotels, as we desire to know how many lights burn in the office, halls, dining room, kitchen, bar, and also the total number of rooms in the hotel, together with the actual number of hours each light burns in each separate room. This information we want in connection with every hall and building where there are any particulars to be given. We do not want you to give the average, as we prefer to obtain that ourselves from detailed information. We shall also be glad if you will discontinue to name the street lamps, as they are of no interest to us and only cause confusion in your canvass.

When you begin entering you canvass on the sheets which will be sent you to-day, please pin the four block faces comprising one block together and then make an index as follows:-



1883-12-19

BLOCK.

1

2

3

2

PAGES.

1--2

3

4--5

Please make any remarks in the "Remark Column" in black ink, except for trees, which you had better make in red ink.

We trust you will pay particular attention to the instructions given you within, as any deviation from the rules we set forth will cause great confusion and delay in our Map Department, which we particularly desire to avoid.

Yours truly,

Thomas A. Edison Constn, Dept.

By

adg

1883-12-19

December 19th. 3

T. M. Teall, Esq.

Syracuse, N. Y.

Dear Sir:-

By same mail we send you a map of Syracuse, N. Y., and in addition to supplying us with the information in accordance with the attached form, will you kindly look carefully over the course of our conductors, as we propose running them, and let us know if there are any obstacles, such as high trees, telephone or telegraph poles, which would prevent our running along any point where the red lines are marked on the map.

In regard to a lot for central station purposes, any kind of a lot whatever will do us as long as it is large enough, and which point will be determined after you submit your report on options. As long as we can have run to put our plant in, it does not matter in the least whether the lot is on an alley, and we would prefer a location which is not conspicuous as near the center of the circle as possible.

In regard to these matters, please let us hear from you at the earliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*Aos*

1883-12-19

December 18th. 3

G. W. Wilbur, Esq.

Post Office,

Knoxville, Tenn.

Dear Sir:-

In your canvass of Atlanta you have omitted to class on about one third of the dwellings. This appears to be a common occurrence with you, and we trust in future these details will not be overlooked, as they cause great confusion and necessitate our having to guess at information which should be reported to us by our canvassers.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1883-12-19

December 19th. 3

I. G. Walker, Esq.

care Judge J. F. Bunn,  
Tiffin, Ohio.

Dear Sir:-

We have your telegram stating that you will not be ready to leave Tiffin until after January 1st., and in reply we beg to say that your statements are rather misleading.

We have a letter from you dated the 13th. inst., in which you inform us that in your opinion at the present time it would be well to turn the work over to Messrs. Baxter & Brown. If the present time is as good as any, we want you to turn the work over immediately and go to Bellefonte, Penna. It is our aim to keep you in one point as short a time as possible compatible with the efficient teaching of the parties who are to perform the work after your departure. Please let us have an explanation as to how the matter really does stand.

In regard to your orders for material, inasmuch as we do not look to you for the payment of our bills, and as the material is ordered on account of the Tiffin Company, before we can supply it we must have an official order from an Officer of the said corporation.

We have written Judge Bunn in regard to the lamps he

1883-12-19

December 10th.

2

desires sent to Tiffin, and when we receive the proper authority for making the shipment, we will immediately have them forwarded.

Kindly let us hear from you as soon as possible in relation to handing over the Tiffin work.

Yours truly,

Thomas A. Edison Constn. Dept.

By

A. O. J.

1893-12-19

December 18th. 3

Western Edison Light Co.

Chicago, Ills.

Dear Sirs:-

In relation to the attached correspondence, we are informed by Mr. Hutchinson, the Secretary of the Isolated Company, that these meters are for you. They have apparently been consigned to the Edison Company, 104 Dearborn Street. We have received no communication from you as to what they are for or why the shipment was made, and we await further particulars.

Yours truly,

Thomas A. Edison Constn. Dept.

by

A. A. S.

Enclosure 1d.

Dec. 1927,

3

G. W. Kilber, Esq.

P. O. Knoxville, Tenn.

Dear Sir:-

We send you to day a supply of canvassing blanks, which we desire you to use in future when submitting your canvass to this office.

When taking notes along the streets you may use a book, and during the day prepare these sheets, which are to be sent on here. We also send you herewith a sample sheet showing how these reports should be made out.

For further information we will give you the following explanations:-

The column on the canvass sheet marked "Width in Feet" means width of building. Where buildings are isolated the distance between them should be paced as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass sheet. Every sheet must be numbered with the number of the block and the name of the street, and, when your canvass is completed, you should pin the four or more different

sheets showing the for faces of each block, and then on a separate piece of paper make an index of the canvass in the following manner:-

## BLOCK.

## PAGES.

1

1--2

2

3

3

4

4

5--6

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours Truly,

Thomas A. Edison, Constn. Dep't.

By



Enclosure.



Meters

1883-12-20

Dec. 20th,

3

W. S. Andrews, Esq.

Chief Elec. Engineer.

P. O. Box, 865 Fall River.

Mass.

Dear Sir:-

Will you please let us know how the meters for Newburg, Bellefonte, Piqua, Middletown, Mt. Carmel and Hazelton are to be standardised, whether the "A" or the "B" meter, and oblige.

Very Truly Yours,

Edison Machine Works.

By

*as*

1883-12-20

December 20th. 3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Could you very kindly send about 10 lbs. of sulphate of zinc to the Edison Electric Illuminating Company, Fall River, Mass. We ordered 300 lbs. of this from Mr White, but up to this writing he has not supplied it, and we have had so much difficulty with bad material that we are afraid to send anything that we are not absolutely sure of. Mr Edison is in Fall River at the present moment, and has telegraphed for this sulphate of zinc, and you would confer a very great favor upon us if you would express it to-day. Furthermore, if you could send on a couple of ounces of marine glue we should be deeply indebted. We have ordered some of this to be expressed from Messrs. Eimer & Amend, but inasmuch as a quantity which they sent to Lawrence sometime ago proved to be useless, we wish if possible to guard against the same mishap at Fall River. We are making arrangements to have this glue prepared at the Testing Room.

We regret exceedingly to be obliged to trouble you, as we fear you will consider that we are imposing upon good nature, but under the circumstances you are the only person to whom we can

1883-12-20

December 20th. 8

appeal to help us out of this trouble.

Yours very truly,

Thomas A. Edison Constn. Dept.

By 

1883-12-20

Dec. 20th,

M. C. Holknap, Esq. Sec.

Edison Elec. Ill. Co.

Newburg, N. Y.

Dear Sir:-

We beg to acknowledge with thanks your letter of the 10th inst., and wish you would be kind enough to notify us immediately the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't.

By

*Edison*

1883-12-20

Dec. 20th, 3-

W. S. Andrews, Esq.

P. O. Box, 565 Fall River,

Mass.

Dear Sir:-

We send you herewith blue print, of the Williamsport station. Please advise us of electrical material as soon as possible.

Very Truly Yours,

THOMAS A. Edison, Constr. Dep't.

By

A. O. J.

1893-12-20

Dec. 20th, 3

W. D. Rich, Esq.

Hazleton, Pa.

Dear Sir:-

We are to day in receipt of a letter from the secretary of the Newburg Co., in which he states provided they have favorable weather, the walls will be up and ready for the roof timbers in eight days. We have requested these gentlemen to advise us as soon as the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constr. Dep't.

By

*aoj*

1893-12-21

December 21st.

3

Messrs. Bergmann & Co.

203 Avenue H, City.

Dear Sirs:-

We are this morning in receipt of a letter from Mr. Edison dated Fall River, and in it he asks us to instruct you to be sure that two lamps with wire in center of them go with each indicator you send out, also that two feet of 1000 platinum iridium wire go also with each indicator extra. Mr. Edison states further that three of the spirit levels on the pressure indicators you sent to Fall River have the bubbles so long that they are utterly useless, and he complains very bitterly of your neglect in not having this work inspected before it goes out; he also says that one of the new field regulators there has a wrong number of blocks.

Kindly give those matters your attention.

Yours truly,

Thomas A. Edison Genl. Dept.

By

*W. C. C.*

1883-12-21

December 21st, 83

W. S. Andrews, Esq.

Fall River, Mass.

Dear Sir:-

We have your letter of the 20th. inst., in reference to advising you about shipments of material, and in future will see that you are promptly notified when any consignments are made.

Yours truly,

Thomas A. Edison Const. Dept.

By

*AOY*



1883-12-21

December 21st, 3

Messrs. Waterhouse, Winterbotham & Harrison,  
1, New Court, Carey Street,  
Lincoln's Inn, W. C.  
London, England.

Dear Sirs:-

I have your letter of the 4th. inst., together with  
instrument appointing Messrs. Theodore Waterhouse, William Howard  
Winterbotham and Richard Lake Harrison my Powers of Attorney.

I have signed same, had it duly attested by a Notary,  
and also had attached to it the certificate of the English Consul  
General, and return the same by this mail, under separate cover.

Yours very truly,

*W. H. G.*

1883-12-24

December 24th, 1883.

Gustav Seldan, Esq. Supt.

104 Goerck Street, City.

Dear Sir:-

In reply to your letter of the 21st. inst. I beg to say that it is my opinion that you had better get a blower. Have you not got one at the Works which will answer? We use a blower at the Pearl Street station.

I return herewith ~~the~~ ~~the~~ letter to you.

Yours truly,

The Edison Machine Works,

By

J. A. E.  
J

Enclosure, CI

1883-12-24

December 24th. 1883.

Messrs. Macpherson, Willard & Co.

Bordentown, N.J.

Dear Sirs:-

We have a letter from our Superintendent, Mr. Soldan, in which he complains of the very slow manner in which you deliver castings to the Machine Works. Could you not arrange to deliver these more promptly, as the non-receipt of them holds back our central station work, and imposes upon us the necessity of carrying a lot of goods which we could otherwise dispose of.

Yours truly,

The Edison Machine Works,

By

Yas

1883-12-24

December 24th. 3

Frank B. Mac, Esq.

care Commercial Telegram Co.

18 Broadway, City.

Dear Sir:-

We have your letter of the 19th. inst. confirming your acceptance of our offer of seventeen cents a pound for 1,900 lbs. of copper wire, which please be kind enough to ship to Thomas A. Edison, 293 Avenue B, City.

We will pay you ten cents per pound for couplings.

Please advise us if you accept this.

Yours truly,

Thomas A. Edison Constr. Dept.

By

*AOJ*

1883-12-24

December 24th. 3

W. D. Rich, Esq.

Bellefonte, Penna.

Dear Sir:-

We send you to-night under separate cover blue prints of  
Mt. Carmel, Bellefonte and Hazleton, which are to be used by the  
wiremen who have charge of the erection of the pole lines.

All information necessary for these parties to have will be found  
attached to the charts.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. J. M.*

1883-12-24

December 24th, 1883

M. H. Pofinger, Esq. Pres.

American District Telegraph Co.

New Orleans, La.

Dear Sir:-

In regard to the map of New Orleans, sent you under separate cover this date, in addition to supplying us with the information in accordance with the attached form, will you kindly examine the course of our proposed street installation and let us know if there are any alterations in same which, in your opinion, it would be desirable to make, and very much oblige,

Very truly yours,

Thomas A. Edison, Constat. Dept.

By



Enclosure.

1883-12-24

December 24th. 3

George D. Beryamin, Esq.

Dixon, Ills.

Dear Sir:-

I have your letter of the 13th, inst. in reference to utilizing electricity for wood cutting, and in reply I beg to say that this experiments has several times been tried, but the idea has been abandoned, as the carbon of the wood rots the platina.

Very truly yours,

J. A. E.

1853-12-24

December 24th. -3

George H. Bliss, Esq.

Chicago, Ills.

Dear Sir:-

We have your letter of the 19th. inst. in reference to  
an amperre indicator, and consider it advisable for you to use one.  
Messrs. Bergmann & Co. make them, and you should order one to show  
load, and graduate it from zero to 275 amperes.

Yours truly,

Sa E  
J



1883-12-24

Dec. 24th,

3.

Henry C. McCormick, Esq. Pres.

Williamsport, Penna.

Dear Sir:-

We have your letter of the 18th inst. in reference to our map submitted to you by Dr. T. G. Detwiler having been accepted as the Exhibit "A" referred to in the contract between us, and we beg herewith to confirm our approval of same.

The map as you state shows the lines as running eastwardly to Penn Street, northwardly to Fifth Street, westwardly to the alley between Grace and Edwin Streets and parallel to Campbell and Walnut Streets, and southwardly along First alley south of Market Square from William Street to Academy Street.

In relation to this contract, we are still waiting to receive from you the first payment of twenty five per cent of the amount of the same, and which first payment is \$18,300.44. We have all our orders for material ready to send out, but until we receive the above remittance from you we will be unable to do anything in regard to forwarding the necessary material to commence work, inasmuch as we have to pay a certain percentage on the greater part of our orders at the time they are submitted for execution.

Very Truly Yours,

7a E Cash Dept  
205

1883-12-24

December 24th. 8

W. H. Dwoley, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

I understand that the engineer allowed the wrist pin  
of the engine to get hot and you had to shut down. This is pure  
carelessness, no matter what the engineer says.

Yours truly,

Dau

1893-12-24 1

December 24th. 3

H. M. Doubleday, Esq.

P. O. Box 505,

Fall River, Mass.

Dear Sir:-

Can you tell us how soon Fitch will be through with the work he is doing at Fall River? As soon as he is prepared to leave there, we should like him to come to New York, as we desire to secure his services in connection with other installations.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AOY*

1883-12-24

December 24th. 3

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the 20th. inst., and await the decision of the Aqua people in reference to the change of the pole lines at that place.

We have received a communication from Mr. Shaw in regard to brick buildings for future estimates, and will comply with your wishes.

Yours truly,

Thomas A. Edison Const. Dept.

by *A. O. J.*

1883-12-24

December 24<sup>th</sup>. 8

William Schwenk, Esq. Prost.

Mt. Carmel, Penna.

Dear Sir:-

Upon receipt of your letter of the 16th. inst. we wrote to Messrs. Bergmann & Co. to hurry forward your material, and they replied to us that they would use the utmost despatch.

In regard to a wiring export, our man will be there in the course of a week or two.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. J.*

1883-12-26

December 26th. 3

E. H. Lord, Esq. Towns.

Lawrence, Mass.

Dear Sir:-

We have your letter of the 22nd. inst., and in reply beg to say that the other "S" machine was shipped to you on the 18th. inst., and we wired you to that effect.

In regard to the belts you are using in Lawrence, we would call your attention to the fact that we are using 10" belts in the same connection at other places and they are giving perfect satisfaction. We therefore see no reason why they should not prove satisfactory at Lawrence.

On the 15th. inst. you asked us to supply you with two more "H" dynamos, and they were shipped on the 22nd., for which we enclose bills of lading. You also asked us for another 14" x 13 engine, and this will be forwarded either to-morrow or the next day, also the bedplate and washers.

We instructed Messrs. Bergmann & Co. to send you some of the new indicators on the 17th. of the present month, which was the earliest date we could issue such an order, on account of the appliances not having been completed until a few days prior to same. We regret that we have not sufficient control over Messrs. Bergmann & Co's affairs to insure more prompt delivery of orders

1883-12-26

2

placed with them on your account.

We are sorry you considered it necessary to write us in such a tone as that embodied in your communication of the 22nd. inst., and we shall be obliged if, in future, you will kindly suppress any suggestions as to the management of our affairs.

We are doing all we possibly can for you and we do not feel that you are justified in writing us letters of this nature.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Tak*

Enclosure, d.

1883-12-26

New York, December 26th, 1883.

65 Fifth Avenue,

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

My Dear Insull:-

We have been daily expecting an autograph communication from you, but up to the present time the only thing which has come to hand is a cablegram, from which we have ascertained that you are sojourning in Paris.

In relation to the letter which you wrote going down the Bay for Major Eaton, I enclose herewith copy of a communication we received from him in reply to the one you sent him. We have done nothing whatever in the matter and are holding it until you return.

The Fall River station was started very successfully on the 14th. inst., and has been running very smoothly ever since.

Andrews and Conant went to Tiffin to-night to commence work there on the inside of the station. Mt. Carmel is ready to be wired, and Bellefonte and Harloton will be ready on the 1st. January.

In my last letter I told you that the Williamsport contract had been closed, but that the street installation was under consideration. That Company have agreed to accept our map in accordance with the new canvass and last determination. This determination is a much cheaper one than the old one, notwithstanding the fact that we included about 2,000 feet more mains.



1893-12-26

The above Company have not yet paid the first instalment on account of their contract, but I am to-night in receipt of a telegram from them in which they state that the money has not all been paid in, but that they will send a check to-morrow or Friday for a portion of it.

In regard to finances, possibly a history of the way I had to "skin" through on Saturday last will interest you. When Mr Edison left here on Tuesday he promised me he would be back Friday night. I have tried to impress him as much as possible with the necessity of being here to sign payroll checks, and he seemed to take it all in. I got three checks from him on the Germania payable to my order, and feeling confident that he would return I disposed of two of them, in fact I had to dispose of these as the payments were necessary, one on account of the Machine Works and the other for Lruosi, who is frightfully hard up. Saturday morning just about when I was expecting Mr Edison to arrive and opening my mail you can imagine my horror upon receiving a note from him dated Fall River saying that the snap was booming, that he was going up to Haverhill to try and close that up and would not be back until Sunday. I had about \$2,400. In the Germania I only had \$2,000., I had a check for \$1,300. for the Machine Works which I could not deposit, as I have no power in that connection with these Works; and in the Bank of the Metropolis I had about \$1,000. I stood the shock with Christian fortitude and bravely went for the mail again, where I came across a check for \$1,000. sent most unexpectedly by Garrison in part payment of the Brockton extras. This check was for Thomas A. Edison,

Sunbury, and wanted us to close a contract with them without having a canvass made, and in fact without ever having before seen a representative of the Edison Electric Light Company. The same thing is reported from Circleville, where the people say that they cannot wait for a canvass to be made and want us to go ahead and put the light in without it. You see that the "snap" is going to "boom" tremendously next year.

Mt. Edison has gone up a point and reached my figures, and is now firmly of the opinion that we will do \$3,000,000. worth of work during 1884.

STATIONS. Tiffin station is ready for the wiremen to go to work on the inside, and Andrews will have his men there in a few days. The pole lines are all completed, and Hibler goes to Bellefonte to put up the lines there immediately. The Mt. Carmel building is completed, and the machinery is being set. Bellefonte is in the same condition and the Hazleton building had the roof completed to-night. Rich has got a good man for pole line work at Mt. Carmel, and we will not be delayed in this matter at all. The Middletown building is in the course of erection. You will remember, no doubt, that the amount allowed for this building in the estimate was \$2,210., and the estimate stated that it was to be a frame structure. When Rich was here, on Sunday last, I discussed the point with him, and decided that on account of brick being so cheap at Middletown, it would create a much better impression if we were to erect a building of this material, and I

1883-12-26

gave Rich instructions to this end:

I had a letter from Shaw asking us to put up a brick building at Piqua. The amount allowed in the estimate for this building was only \$1,350., and it was to be the same size as the Middletown building. I wired Shaw that we would erect a brick building at Middletown, and that we would put up a brick building at Piqua for \$2,210., the same price as the former. To-night I have a telegram from him accepting the figures, and I have wired Rich accordingly. The foundations of this building are being put in at the present time, and Rich says that there is a good margin on those figures.

Major Eaton sent up a letter from Mr. Hoffinger of New Orleans, and the prospects of closing this contract are excellent. They have over half the capital stock subscribed at the present time, and the affair is almost as good as settled.

St. Louis, from Brewster's report which the Major sent up to-day, looks a little "blue" again, but this will eventually go through.

In regard to the Danbury installation, you will recollect that this was one of the estimates which we made before we discovered that we were about five per cent out on our general expenses. The day after you left I asked Mr. Edison if it would not be a good idea to give Harris & Robinson six days to close out that business, and if they failed to do it in that time the estimate was to become void, and a fresh one substituted.

He approved of the suggestion, and to-morrow the Danbury estimate gives up the ghost. - They had a meeting in Danbury last night, the result of which, in connection with the acceptance of our estimate, has not yet been communicated to this office, but I do not anticipate the acceptance of it. I hope you will endorse this action, as, in my opinion, we have been working for love long enough and are ~~xxxxx~~ justified in taking the proper means to protect ourselves in the future.

Before you return we will have all the plants now under way running, I think, without any exception.

Everything has gone along without a hitch since your departure.

The shorthand man you engaged has turned out to be of no use, and I have arranged to get another man. I will have him properly broken in before you come back. He is to come at the same figure as the man who leaves is getting.

I cannot at the moment think of any other points of interest, but I will write you regularly now every few days, and keep you thoroughly posted as to what is going on.

Kruesi came to me the other day and took me into a corner very confidentially. I noticed that there were tears in his eyes and that he was very much agitated, and he asked me if I had ever been connected with any machine works, and upon informing him that I had, he wanted to know if patterns were regarded as an available asset!!!!

1883-12-26

G.

Trusting that you may have a very Merry Christmas and  
Happy New Year, which is stereotyped, but none the less sincerely,  
and also conveying the same wish from our friend Mr. Gilmore, who  
since you left has "kicked" like a mule against working on Sunday,  
believe me to be,

Very truly yours,

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

1883-12-26.

December 26th.

Spencer Horden, Esq.

P. O. Box 3311,

Boston, Mass?

Dear Sir:-

I have your letter of the 24th. inst. in regard to  
Mr. Bancroft, and in reply beg to say that I have written to that  
gentleman complimenting him on the able manner in which he per-  
formed his work at North Adams.

Very truly yours,

*Yours*

1883-12-26

December 26th, 83

Messrs. Alden & Sterne,

2 West 14th, Street, City.

Dear Sirs:-

In reply to your communication of the 20th. inst. I beg to say that we had to find the lots to get up our specifications. The Company cannot do anything until the specifications and plans are ready, and this will take about two months.

Very truly yours,

*Saw*  
*J*

1883-12-26

December 26th. 3

W. S. Andrews, Esq.

Tiffin, Ohio.

Dear Sir:-

We are in receipt of a letter from Mr Rich in which he says that the Mt. Carmel station is ready for wiring, and that Hazleton and Bellefonte will be in condition for your men on the 1st. January.

You will have to make some pretty lively moves to take those all in on time.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*ae*



1883-1226

December 20th. 3

J. F. Rynn, Esq, V. P.

Tiffin, Ohio.

Dear Sir:-

We referred your letter of November 30th., in regard to the paragon cable, to Mr. Walker, and we have informed him that whenever parties are willing to take the risk as regards the wire being approved by the Underwriters it is all right to supply them with it. The advantages afforded by the use of this cable make it a much more desirable article than any other wire in practice at the present time.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Ray*

1883-12-26

December 26th, 3

W. L. Garrison, Esq., Treas.

P. O. Box 3027,

Boston, Mass.

Dear Sir:-

In regard to a communication which we received from you some time ago in relation to a Cromwell Heat Controller, we referred the matter to our Superintendent, Mr. Rich, and in reply he states that the day before he left Fall River he received a letter from the Cromwell Bros. about the heat controller at Brockton, saying they were ready to take it out if it was not satisfactory, and if it was satisfactory they desired to be paid for it. Mr. Rich immediately wired Mr. Johns asking him if the heat controller had been tested, according to the agreement made with the Cromwell Bros., which agreement was to have the coal carefully weighed and they to fire the boiler one week and our engineer to fire it the next week, they to fire it the third week and our engineer the fourth week. Then the figures were to be submitted to us and, if it appeared that they had saved five per cent over the old style of damper, we were to take the controller and pay the amount, otherwise they were to remove it at once and put the brick work in as good condition as it was prior to the introduction of the heat apparatus.

Mr. Jenks replied that they had not weighed the coal, but that the engineer thought it saved fuel. Mr. Rich considered that such a test would not justify the purchase of the apparatus, notwithstanding the opinion of the engineer, as he had heard these party say previously that he had a very poor opinion of the damper, and stated that unless they could comply with the terms of the agreement he would not purchase the heat controller.

If the Cromwell Bros. still wish to fulfill the conditions of the contract, our Superintendent will receive their figures and give the matter due consideration.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *AE*

1883-12-26.

Edison, T.A.

- Personal

December 20th. 3

D. W. Burrell, Esq.

Little Falls, N. Y.

Dear Sir:-

I have your letter of the 21st. inst. in regard to separating cream from milk, and in reply beg to say that I have not forgotten the matter, and just as soon as I get my electric light affairs in shape I am going to work up several industrial enterprises, of which this will be one.

Very truly yours,

Tah  
3

1883-12-26

December 26th, 1883.

Gustav Solder, Esq. Supt.

-104 Goerck Street, City.

Dear Sir:-

We enclose herewith a letter from Mr. Dwellley in reference to the Flint Mill installation.

Please have the switch board and belts he speaks of sent forward immediately, together with two more tracks of uniform size to correspond with those of the other "R" machines. This installation is an important one, as we expect more orders, providing it is satisfactory, and we wish you to pay particular attention to the statements and requests made by Mr. Dwellley in this letter.

Yours truly,

Thomas Edison & Co. Works,

By



Enclosure, s.

1883-12-26

*Patents*

December 26th. 8

R. Rogers, Secty. Pro Tem,

The Edison-Gower-Bell Telephone Co. of Europe, Ltd.

34 Walbrook Street,

London E. C. England.

Dear Sir:-

I have your letter of the 7th. inst., and in reply beg  
to say that I have sent you this day by registered mail my Italian  
Telephone Patent No. 9791, granted February 8th. 1878.

Please acknowledge receipt and oblige,

Very truly yours,

*Wm*

1883-12-26

December 26th. 3

George W. Wilber, Esq.

Post Office,

Knoxville, Tenn.

Dear Sir:-

We have your letter of the 23rd. inst., and in regard to the width of buildings we beg to say that the red figures in the model canvass sheet sent you represented the distance between isolated buildings.

In relation to trees, please give the number on each block face, and if evenly distributed, say so, and if not evenly distributed, merely mention the fact without giving the distance between each <sup>tree</sup> ~~tree~~. I.C.D. means "First Class Dwelling."

After yours and in your first canvass in accordance with the new process, we will be able to tell exactly upon what points you are deficient, and you will be immediately advised as to where corrections should be made.

We note your remarks in regard to the difficulty you have in obtaining money by check, and in future we will either send it by postal order or will telegraph it to you, waiving identification, which will obviate all difficulties. Each time you arrive in a new town,

Please wire us at once your hotel address. When you

1883-12-26

2

were in Mobile we had two or three telegrams returned to us with the statement that George W. Wilber was unknown in that city.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*aoq*



1883-12-26

December 26th. 3

W Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

In reply to your letter of the 16th. inst., wherein you referred to printed answers to questions on Meters &c., Mr. Edison states that he gave you a copy himself before the six copies were sent to Brockton. Mr. Edison states that he left Brockton before these latter copies arrived, and that he certainly gave you one and told you to mark your name in it. We wish you would make a thorough search for this, however, as it is very desirable that it should not fall into other hands than those of our electrical employees.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-26

December 26th. 3

W. L. Garrison, Esq. Treas.

P. O. Box 3027,

Boston, Mass.

Dear Sir:-

We beg to acknowledge with thanks receipt of your letter of the 21st. inst. enclosing check for \$1,000. on account.

We communicated with Mr. Jenks to-day in regard to the change you desire made at Brockton, specifying the material we propose to supply you with. Mr. Jenks will no doubt communicate with you on the subject.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-26

December 20th. 3

I. C. Walker, Esq.

Tiffin, Ohio.

Dear Sir:-

We have your letter of the 21st. inst., and in regard to the shipment of material in connection with the wiring of buildings if you intended Messrs. Baxter & Brown to pay for the material which was shipped to Tiffin, you should have instructed them to send us an order. We have no doubt that it would have been all right to ship the mater on your order, but we much prefer to have written authority from the parties who have to bear the expense of the material, which avoids any discussion that might take place as to who is responsible for ordering it.

We are very anxious that you should leave Tiffin as soon as possible, but on the other hand do not desire you to go to any other point until you consider Messrs. Baxter & Brown thoroughly competent to take full charge of the Tiffin work.

In regard to the new cable, where parties are willing to take the risk as regards insurance it is all right to supply them with it.

Yours truly,  
Thomas A. Edison Constr. Dept.  
By

*A. J.*

1883-12-26

December 26th. 3

E. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In regard to a communication we received from you some time since, wherein you state that when you fed your boilers with cold water the steam was so damp that it would not do more than ~~more~~ half duty although the pressure remained the same, and wherein you claimed that the trouble was in connection with the injector connected with the boiler, we referred those statements to our Superintendent, Mr. Rich, and in reply he says that it is impossible for any injector to feed cold water into a boiler under a pressure of 190 heat, which is the lowest temperature, as indicated by the thermometer attached to the injector. He further states that the connection with the new boiler is made precisely at the same point as on the boiler which was first set, and that the real trouble is that the engineer carries the water too high in the steam drum. If he would adjust the injector so as to gauge a constant feed according to evaporation and not allow the water to rise above the second cock, you would find no cause for complaint, neither would there be any danger of bursting the cylinder heads or syphoning water from the boiler. Mr. Rich says that he is confident this is the trouble at Lawrence, as the same thing was met

1883-12-26

2

with at Brockton with the first engineer we employed there.

Our Superintendent will visit Lawrence shortly and explain these matters to you in person, and endeavor to adjust the difficulties with at the present time.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*A. E. A.*

1883-12-26

December 26th. 3

W. J. Jenks, Esq. Manager,  
Brockton, Mass.

Dear Sir:-

Replying to your letter of the 21st. inst., we beg to say that when we submitted our bid for the change at Brockton, amounting to \$1,290., it was our intention to undertake to do the work in connection with making this change, except as regards alterations to the engine. We should, however, prefer you to do the work in connection with setting up the new machines, and beg to submit the following proposal:-

We will supply you with material as below at the prices named:

Two 400 light dynamos (10 candle power).....	\$ 1,067.50
Two belts for same.....	80.35
Two regulators for the above machines.....	115.00
Switches for same.....	13.00
Two double dynamo switches for changing circuits.....	49.40
Repairing 800 light machines.....	30.00
Total.....	\$ 1,952.01

We will take back from you, one 800 light dynamo and one belt, allowing you \$1,400. for the former and \$30. for the latter. This will leave an amount to be paid us of \$552.01

1893-12-26

December 20th.

2

You will do all work in connection with putting up these machines, pay expenses of boxing and shipping the machine and bolt returned to us.

Please let us know if this will be satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Aoy*

1883-12-26

December 26th. 3

Charles P. Lyon, Esq.

Post Office,

Pottsville, Penna.

Dear Sir:-

In reply to your letter of the 22nd. inst., we beg to say that we consider it advisable for you to obtain as much information as possible in regard to real estate for sale in the different towns you canvass. There are no regular report forms calculated to embody this information, and you can send it to us in a letter.

Yours truly,

Thomas A. Edison Consin. Dept.

By

*A. E. D.*



1883-12-26

December 26th. 3

Thomas M. Rightor, Esq. Treas.

Mt. Carmel, Penna.

Dear Sir:-

In reply to your letter of the 17th. inst., we beg to say that we will extend your lines from Fifth Street along the alley between Maple and Oak Streets to Sixth Street, in order to take in your house, without extra charge to your Company. This concession will cost us about \$100. more than we have allowed for in our contract, but inasmuch as you state Mr. Edison promised it, we will of course undertake to do the work.

In regard to running along Sixth Street instead of Fifth Street, this change would alter our electrical determination and would render useless the greater part of the wire we have shipped to Mt. Carmel. Your house can be taken in by a service from the entrance on Sixth Street to the alley between Maple and Oak Streets. It is impossible for us to make any other changes in this installation, and we trust you will be satisfied with the alterations made in accordance with this letter.

Please show this communication to Mr. Schwenk, and tell him that it answers his communication of the 17th. inst.

Very truly yours,

Thomas A. Edison Genl. Dept.

By

*A. A. J.*

1883-12-26

December 29th. 3

John M. Stewart, Esq.

2096 Third Avenue, City.

Dear Sir:-

In reply to your letter of the 19th. inst., I shall be glad to have you call at this office as early as possible, bringing with you any letters of recommendation which you may have.

Yours truly,

*John*  
*J.*

1883-12-26

December 26th. 8

N. Y. Safety Steam Power Co.

30 Cortlandt Street, City.

Dear Sir:-

Will you please let us know the price, together with  
your best possible discount, for your vertical engine cylinder  
3 x 5, and designated in your catalogue of November, 1883, as  
figure No. 5. If we can make satisfactory arrangements with you  
in regard to prices we may adopt these engines in all our central  
stations, and will probably be able to place large orders with  
you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Wey*

1883-12-27

Dec. 27th.

3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

Referring to the amount of \$2,000 which is still outstanding on our books against your Company, we should very much to know what your intentions are as regards the settlement. You are no doubt aware that as far as we are concerned the Shamokin Installation, was financially a heavy failure, and in consideration of this fact, we are compelled to urge you to make a speedy settlement of the balance now due us. The date of the bill which was made out to your Company, specifying the material which had been supplied on account of the contract, is October 13th., and from that date we will charge you interest at the rate of 12 per cent per annum. We can assure you that this interest by no means compensates us for the loss we are sustaining through the tardiness of your Company. We turn our money so quickly that the principle yields much more by being in our hands, so that we can directly control it, than by being let out at any rate of interest, which it would appear reasonable to charge. We can assure you that it is as distasteful for us to have to remind you of this matter so often, as it is for you to re-

1893-12-27

Dec. 27th. 3

ceive our letters, at the same time we think that we are not being justly dealt with, when the affair is left dormant except at such times as it is brought directly to your attention by letters from this Office.

We trust you will therefore send us a check for the full amount upon receipt of this letter, together with \$50.00, which is the interest from the date of your bill, namely October 13th, to the present time, and which is charged to you at the rate above mentioned.

Very Truly Yours,

Wak

1883-12-27

Shamokin

Dec. 27th, 3

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Dear Sir:-

In relation to the 150 temporary fixtures which you returned from Shamokin, and for which you desired us to give you credit, we beg to say that the amount charged you for these fixtures was 48 <sup>1</sup>/<sub>2</sub> cents each. We shall therefore have pleasure in allowing you the same rate, as the fixtures are in order and we can use them elsewhere.

In November we wrote you a letter in regard to our account, and some errors which were made therein, in connection with calculating the amount to be deducted for certain work which was not performed. By referring to the said letter, you will find that you credited your account with \$56.92 too much. The amount which we will allow you for 150 fixtures is \$72.75, and after deducting the overcharge referred to we will owe you \$15.83.

We wrote you to day in reference to the balance still due on your contract, and asking you to send us a check for \$2,050. If you will therefore make this check for \$2,034.17 it will square our accounts.

Very Truly Yours,

Gae.

1883-12-28

December 28th. 3

J. V. Kirby, Esq.

Essex House,

Salem, Mass.

Dear Sir:-

In reply to your letter of the 20th. inst., we beg to say that after you are through with the Lawrence company we can probably do something for you.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-28

December 28th. 3

John Mullen, Esq. Treas.

Shenokin, Ponna.

Dear Sir:-

I have your letter of the 26th. inst., and in reply  
beg to say that I do not quite understand the meaning of it.  
I have no stock in the Shenokin Company. There is a balance of  
\$2,000. due on our contract, and I have written Mr. Douty in rela-  
tion to it to-day.

Very truly yours,

*J. M.*  
*7*



1883-12-28

December 28th. 3

M. H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

In relation to your letter of the 15th. inst., wherein you asked us to supply you with two more "H" dynamos and another 14<sup>1</sup>/<sub>2</sub> x 18 engine, which necessitated the bedplate and washers, we presume the dynamos have been received in Lawrence, the bedplate and washers were shipped yesterday and the engine is being loaded to-day.

Will you be kind enough to send us your check for \$1,277.50, which is twenty five per cent of the amount of this order, and which should be paid to us upon the reception of your requisition, in accordance with the terms of our agreement.

The above amount is made up as follows:-

Two "H" dynamos.....\$ 3,000.

One 14<sup>1</sup>/<sub>2</sub> x 18 engine..... 2,000.

Bedplate and washers..... 70.

Will you not require some more electrical apparatus in connection with this addition to your station? Shall we get a

list of what is necessary from our Electrical Engineer, Mr. Andrews, or will you send us a requisition for what you want?

Yours truly,

*Jale*

1883-12-28

December 28th. 3

W. S. Andrews, Esq.

Tiffin, Ohio.

Dear Sir:-

We have received a telegram from the Secretary of the Tiffin Company in relation to services, and in reply to same we told him that Mr. Conant would give all necessary explanations as to how the customers are to be cut in. We have forwarded the wire for this purpose and if any other material is required wish you would be good enough to have the Company send us a requisition for it.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*A. M. Y.*

1883-12-28

December 28th. 3

H. Ward Leonard, Esq.

Lawrence, Mass.

Dear Sir:-

We have this morning received your letter of the 26th. inst.

The No. 85 copper wire you speak of will be expressed to-day or to-morrow.

In relation to drawing upon us, we beg to inform you that this is a privilege which we very rarely extend to our employees, and only in cases of absolute necessity do we allow them to make drafts on us for money. If you desire it we shall be glad to send you a check once a week for your salary and allowance, or at such intervals as you would prefer.

Mr. Andrews gave us a requisition for the material mentioned in your letter, and his request is having our attention.

We enclose herewith check to balance your account to date.

Yours truly,

Thomas A. Edison Constr. Dept.

By



1883-28

December 28th. 3

W. L. Garrison, Esq. Treas.  
N. O. Box 3627,  
Boston, Mass.

Dear Sir:-

In accordance with your request we have pleasure in enclosing herewith a detailed statement of our account against you for \$1,170.42, which was the one you wanted us to itemize.

If you have any counter charges, we wish you would be kind enough to send us a statement of them at the earliest possible moment, as it is our desire to close this matter out and obtain whatever balance may be due us, as we wish to use the money. In accordance with the statement sent you you still owe us \$627.42

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A. O. H.

Enclosure, b.

1883-12-28

December 28th. 3

James Harris, Esq. Secty.

Bellefonte, Penna.

Dear Sir:-

We have received your telegram of yesterday's date in regard to the Bellefonte street installation, and in which you state that the wires do not extend to Minn & Curtin Streets, as agreed with Mr. Shaw.

In reply we beg to say that we know nothing of Mr. Shaw's statements in connection with this matter. On the 2nd. November we sent Mr. Shaw a letter enclosing an estimate for the erection of an Edison Electric Light Central Station Plant of 500 lights capacity and amounting to \$14,741.00, together with the forms of agreement, map showing the proposed course of our conductors and plan of the general arrangement of the station we proposed erecting. We called Mr. Shaw's attention to the fact that there were 843 lights covered by our wires. The next day we got a telegram from Mr. Shaw asking what it would cost to increase this plant to 800 lights, and on November 5th. we wired him that to make a Bellefonte estimate for 800 lights capacity, instead of 500 lights capacity, would increase the figures sent him on the 2nd. November by \$2,310. This brought the amount of our estimate up to

1893-12-28

2

\$17,071.60 Your Company made some few deductions in the minor details of the estimate, which reduced it to \$10,507.27

You will see from this that the subject of the change in the street installation was not broached at all, and that the increased capacity of the station was made in view of the fact that there were 843 lights in the district, and that it would be advisable to take them all in.

We will send you to-morrow our figures for making the extension you desire, and if they are accepted we will have the material sent forward immediately.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

*Talc*

1883-12-28

December 28th. 3

W. H. Ouelley, Jr Esq. Treas.

Fall River, Mass.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your check for \$4,000. on account of the Fall River installation, and in reply to your letter under same cover, in which you say you had made the third payment, we would state that at the time the station was ready to supply light there was an amount of \$2,314.45 on account of the third payment due us, which was made up in the following manner:-

Ten per cent of the amount of our contract, namely, \$4,180.00, was paid upon the signing of the agreement; twenty per cent, namely, \$8,361.00, was to have been made on October 28th.; and twenty five per cent, namely, \$10,438.47, was to have been paid when the installation was ready to supply light. These payments aggregate \$23,995.48

The amounts received from you are, as stated in your letter, \$4,180.00, \$8,000. and \$8,500., making a total of \$20,680.00. This left a balance of \$2,314.45, which we mentioned above as being due us last week and it was this amount we had reference to when we telegraphed you.

1983-12-28

2

We are very much obliged for the check you sent us and  
have given you credit for same.

We return herewith receipt.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

A handwritten signature in dark ink, appearing to be 'Tom' or 'Tommy', written over the word 'By'.

Enclosure, a.



1883-12-28

December 28th. 3

E. G. Acheson, Esq.

18 East Street,

Red Lion Square,

London, W. C. England.

Dear Sir:-

In reply to your letter of the 13th. inst., to hand today, I beg to say that we can give you a situation, but cannot at the moment say definitely what it will be, and if you come over it will be necessary for you to take whatever turns up.

Very truly yours,

*W. G. Acheson*  
7

December 30th, 3

E. H. Hubbard, Esq. Secty.  
Tiffin, Ohio.

Dear Sir:-

We have received your telegram of the 25th. inst.  
regarding the service wire, and in reply beg to say that Mr. Conant  
will give all explanations in relation to cutting in customers and  
the running of service wires, material for which purpose has been  
forwarded to Tiffin.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-28

December 28th, 8

W. D. Rich, Esq.

Hellefonte, Penna.

Dear Sir:-

In relation to the map sent you showing the course of the pole lines at Mt. Carmel, we beg to say that we have agreed to extend our line on Bear Alley from Fifth Street to Sixth Street. It will necessitate about four more poles and we have ordered forward the additional wire. We send you another map showing the extension referred to.

Yours truly,

Thomas A. Edison Constn. Dept.

By



Enclosure.

1883-12-28

December 28th. 3

W. D. Rich, Esq.

Bellefonte, Penna.

Dear Sir:-

In reply to your letter of the 22nd. inst., wherein you make a sketch of the Bellefonte building, we beg to say that your arrangement is the only one which, under the circumstances, will answer, and we will alter our plans to conform therewith.

Yours truly,

Thomas A. Edison Constn. Dept.

By



1883-12-28

December 28th. 8

Sidney H. Paine, Esq.

P. O. Box 3311,

Boston, Mass.

Dear Sir:-

In reply to your letter of the 27th. inst., we beg to say that an 800 to 1200 light plant, pole line, varies from \$23. to \$26. per light. This cost includes the running of the station for thirty days at our expense after same is ready to supply light. The machines which we would use in connection with a 1200 light plant would be two "Y" dynamos, which give 800 ton candle power lamps each, and one 2 x 12 engine. You of course understand that it is difficult to approximate the cost of any plant, as there are such a variety of circumstances which cause the amount to vary.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*AOH*

1883-12-28

December 28th. 8

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We beg to inform you that we are still awaiting information in connection with real estate for Lima and Washington C. H., Ohio, Cynthiaana and Haysville, Ky. and Canton and Chillicothe, Ohio.

Yours truly,

Thomas A. Edison Constn. Dept.

By

*ROY*

December 28, 1883-12-28

28

Societe d'Appareillage Electrique,  
Geneva, Switzerland,

Dear Sirs:-

Your letter of the 27th. October has remained unanswered until the present time in order that some new types of dynamos which I had under course of construction might be finished. This work has now been completed, and I have the pleasure to enclose herewith the report of our Mr. Clark, who is the Engineer of the Edison Electric Light Company, and which report will answer all the queries contained in your communication referred to.

The price of the new 200 light dynamo is \$725., F. O. B. New York, with regular winding, for higher volts probably be \$75., more each.

Trusting that this information will not arrive too late to be of service to you, I beg to remain,

Very Truly Yours,

JAE

Enclosure, 1.

1883-12-28

65 Fifth Avenue,

New York, December 28th, 1883.

Samuel Insull, Jr., Esq.

21 Burton Crescent,

London, W. C. England.

My Dear Insull:-

In my letter of last evening I mentioned to you that we had a list of the stockholders in the Williamsport Co., and that we were going through Bradstreets to ascertain their standing. None of them are quoted. Shaw and young Detwiler were in here yesterday and told us that they were all professional men and were not given a rating. We find that P. E. Shaw, Dr. Detwiler and young Detwiler hold about one third of the stock. We are going to send Russell to Williamsport to find out all about this business, which looks very "fishy." They have not yet, as I stated in my letter, paid in ~~the~~ the first instalment, and in our opinion we think the intention of this Company is to scrape together twenty five per cent of the amount of our contract, after which nothing will be due us until the installation is ready to supply light. Upon our getting this far in the matter they imagine it will be impossible for us to withdraw, and they can make us carry it until they dispose of the large amount of stock held by the above mentioned trio. None of these three luminaries have one dollar to rub against another, and I think we are justified in drawing these conclusions in connection with their inco-



1883-12-28

2

tions. We have not sent out a single order yet, nor do we intend to until the matter has been thoroughly investigated and we feel perfectly satisfied that our money will be forthcoming when it is due.

Very truly yours,

*W. H. C.*

1893-12-29

December 28th. 3

A. A. Cowles, Esq. Sucty.

Ansonia Brass & Copper Co.

10 Cliff Street, City.

Dear Sir:-

Allow us to introduce to you Mr. C. F. Hanington, who  
was formerly one of the partners in our late Wiring Department.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*A. E. J.*

1883-12-31

December 31st. 3

K. S. Fissell, Esq.

2413 Prairie Avenue,  
Chicago, Ills.

Dear Sir:-

We have your letter of the 28th, inst., and in reply to your Par. 1, Q. 1. beg to say that we are daily expecting an answer from Mr. Shaw in regard to your assisting him in Penna.

In relation to your P. 2., we beg to say that the canvass of Knoxville has been completed, and we expect to receive it to-morrow.

Very truly yours,

Thomas A. Edison Constn. Dept.

By



1883-12-31

December 31st. 3

W. D. Rich, Esq.

Hollofoote, Penna.

Dear Sir:-

In reply to your letter of the 27th. inst., in relation to the injector at Tiffin, we beg to say that we have discontinued the use of exhaust injectors, and have adopted the "Porting" injector.

We will send you a supply of instruction cards, which you can distribute as you see fit.

Very truly yours,

Thomas A. Edison Constn. Dept.

By

*Aoy*

1883-12-31

December 31st, 1883.

George W. Bliss, Esq. Gen'l. Supt.

Chicago, Ills.

Dear Sir:-

In reply to your letter of the 22nd inst., in which you state that you were furnished with "K" brushes with "C" dynamos, we beg to say that we use "K" brushes in the old style brushholders of the 25 and 50 light machines. We recently changed the brushholders on these machines and used "H" brushes in connection with them. It is now our intention to use double brushes on all machines.

When the dynamos you speak of were tested at our Works we had no trouble with the brushes or brushholders in question.

Very truly yours,

The Edison Machine Works,

By

*J. A. Lee*

1893-12-31

December 31st. 3

W. H. Dwalley, Jr Esq. Treas.  
Fall River, Mass.

Dear Sir:-

In relation to exchanging the 8<sup>1</sup>/<sub>2</sub> x 10 engine at Fall River for a 12 x 12, we beg to say that we will supply you with material and labor as follows:-

One 12 x 12 engine.....	\$ 1,100.00
Foundation.....	94.30
Foundation cap and washers.....	31.88
Foundation bolts and pipe.....	<u>9.53</u>
Total.....	1,235.71

We will give you credit for the following material:-

One 8 <sup>1</sup> / <sub>2</sub> x 10 engine.....	\$ 250.00
Cap and washers.....	30.39
Bolts and pipe.....	<u>7.09</u>
Total.....	387.48

This makes the cost to you of the above change \$847.63, but in addition to this amount we shall ask you to pay the salary, expenses and railway fare of our man, whom it will be necessary to send to Fall River to do the work.

Will you kindly let us know if this will be satisfactory

1893-12-31

2

at the earliest possible moment, Armington & Sims having a great many orders booked, and we may have trouble in getting the 6<sup>1</sup>/<sub>2</sub> x 12 engine promptly, and the sooner we get our order in the better.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *TAE*

1883-12-31

December 31st. 3

Winfield S. Hutchinson, Esq.,  
53 Devonshire Street,  
Boston, Mass.

Dear Sir:--

I have your letter of the 20th. inst. in relation to  
powers of attorney for Mr. Jose D. Husbands, and herewith I beg to  
enclose these documents properly executed.

Kindly acknowledge receipt and oblige,

Very truly yours,

*W. S. H.*



1883-12-31

December 31st, 1883.

J. S. & W. Pockham,

Utica, N.Y.

Dear Sirs:-

In relation to mica, we beg to say that we sent the samples your Mr. Pockham left at this office to the Superintendent of our Works, and had him weigh them, after which he cut them into sizes that he could use and weighed them again, so as to ascertain the cost of the mica to us properly cut. The result of the experiment has been that 30 cents per pound is too high a price for us to pay for mica, such as the sample sent us.

Very truly yours,

The Edison Machine Works,

By

*J. A. G.*

1883-12-31

December 31st, 1883.

Gustav Soldan, Esq. Supt.

104 George Street, City.

Dear Sir:-

In relation to paper pulleys, do you not think it would  
be a good idea for us to adopt them in future?

Yours truly,

The Edison Machine Works,

By

*A. O. G.*

1883-12-31

December 31st. 3

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Mr A. S. Hissell, who has lately been in Knoxville working up the interests of the Edison light at that point, requested us to write to you and ask you if he could in any way assist you with your work in Pennsylvania. We do not know whether you are acquainted with this gentleman or not, but if you desire any information in regard to him and his capabilities, no doubt Mr Hastings could give it to you.

Awaiting your reply, which Mr Hissell requests us to transmit to him, we are,

Very truly yours,

Thomas A. Edison Genl. Dept.

By

*Gay*

December 31st. 3

Messrs. Schwank, Esq. Prest.

Mt. Carmel, Penna.

Dear Sir:-

In reply to your letter of the 28th. inst., we beg to say that we will have our wireman at Mt. Carmel at the earliest possible moment. We have had to start so many stations all at once, and as expert help of this character is <sup>hard to</sup> obtain, it being necessary for us to educate all our electrical employees, that we are rather short of men, but we will delay the work at Mt. Carmel to as small an extent as practicable.

We wrote to Messrs. Bergmann & Co., asking them to hurry your material.

Very truly yours,

Thomas A. Edison Constr. Dept.

By

1883-12-31

December 31st, 1913

James Harris, Esq. Secty.

Hellefonte, Penna.

Dear Sir:-

We have your letter of the 26th. inst., in which you state that there seems to be a misunderstanding in regard to what you are to receive under agreement for an 800 light plant.

In reply to your letter, we beg to enclose herewith six copies of the 500 and 800 light estimates. You will notice that in each case the amount for the street installation is exactly the same, namely, \$4,050.15, and the map showing the course of our street installation which was submitted with the 300 light estimate is exactly the same as the one submitted with the 800 light estimate. You will observe that the district in each case covers 848 lights, and we presumed that it was in order to take in all those lights that you requested us to submit an 800 light estimate, instead of a 500 light. The amount of the 300 light estimate is \$14,761.00; the amount we charged you for increasing the capacity of your plant to 800 lights, instead of 500 lights, was \$2,810. This brought the amount of the 800 light estimate up to \$17,071.00, but your Company deducted some of the smaller supplies, which they preferred purchasing themselves, which reduced the amount of the estimate to \$16,567.27

We are at a loss to understand your statement that your Company have never seen a copy of our 600 light estimate.

Mr. Shaw was given this estimate, and after the Bellefonte Company had made these deductions in the minor details, of which we have spoken, he had the estimate typewritten and returned to us, and we have this copy in the office.

The amount of the increase was for changes in the boiler, engine and dynamos, which all had to be of larger capacity, also for a larger building.

In connection with this building, after our contract was closed you desired it made larger still, and allowed us \$200. for extending it. This makes the amount of our contract with you \$10,767.27

We trust that as far as we are concerned this explanation will be satisfactory to you.

Very truly yours,

Thomas A. Edison Constn. Dept.

By *TAC*

Enclosure, c.

1883-12-31

December 31st, 1883.

Gustav Soldan, Esq. Supt.

104 Guerck Street, City.

Dear Sir:-

We have your letter of the 24th. inst. reporting test n  
on the special "Y" dynamo.

What I want to ascertain is the non-sparking point sharp-  
ly defined? With same amperes is the position of non-sparking  
point the same and does the brush have to be adjusted finer to  
obtain non-sparking point?

Also please let me know if the new iron gives higher  
volts?

Yours truly,

*G. S.*

1883-12-31

December 31st. 3

Charles P. Lyon, Esq.

Post Office,

Pottsville, Penna.

Dear Sir:-

In relation to your canvasses, in future when mentioning tenement houses, will you please simply state "tenement" and not class them as second, third or fourth. Please do not take any notice on your canvass of fourth class houses, and also be kind enough not to abbreviate your canvass and call a restaurant or bar "R", but write out in full what it is, and very much oblige,

Yours truly,

Thomas A. Eblin Constr. Dept.

By





1883-12-31

December 31st. 3

Messrs. Markle & Hall,  
33 Congress Street, W.  
Detroit, Mich.

Dear Sirs:-

In relation to the Ypsilanti lot, we presume you are aware that there is a building on it. We should like to have a carefully figured sketch or drawing of this building, showing the exact size inside, also showing the height, width, depth, excavated below grade of street, position of the foundation, position of columns or interior walls, if there are any, also size of floor beams and distance from centre to centre of same. Are side walls and ceilings plastered or sheathed with boards?

We would beg to call your earnest attention to the fact that this information must be very accurate, and we should like the plan made on as large a scale as possible.. Immediately on receipt of this data we will forward you the Ypsilanti estimate, all matters in connection with which must remain in abeyance until we hear from you.

Very truly yours,  
Thomas A. Edison Const. Dept.  
By *Edison*

Major Insull:-

(1883)

Referring to your memo of this date about Shamokin, all I can say is that Armington & Simsman makes the assertion that the piece of the regulator which was reversed was put on by a local engineer, before he arrived there. This is denied by the man who is supposed to have done the work before Armington & Simsman arrived at Shamokin. Now although they insist that they were not at fault, I see no reason to doubt Armington & Simsman, nor do I see any reason particularly to doubt the local people, except that a man who makes a mistake usually tries to cover it up and the assumption is, that the man that Armington & Sims would send to Shamokin would know something about fixing up the regulator of their engines, whereas the employee of a local machine shop would in all probability know nothing about fixing up such an engine.

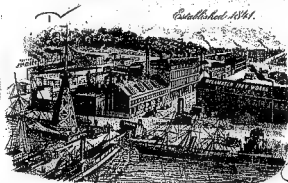
S. Insull.

By. H.

**1883. Edison, T.A. - Suppliers (D-83-017)**

This folder contains correspondence and other documents relating to suppliers of equipment and materials for Edison and his companies. Many of the documents deal with supplies obtained for the construction of central stations by the Thomas A. Edison Construction Department. The items filmed contain significant Edison marginalia or provide significant information about the equipment or materials being purchased.

Approximately 10 percent of the documents have been filmed. Routine correspondence has not been filmed.



Established 1841.

C. H. Delamater

G. W. Robinson

1883-5-23

Wm. Delamater

**DELAMATER IRON WORKS**  
C. H. DELAMATER & CO. PROPRIETORS.  
**BOILER MAKERS**  
**ENGINE BUILDERS AND FOUNDERS**  
FOOT OF WEST 137<sup>TH</sup> ST  
NORTH RIVER.

*New York* MAY 23, 1883 188

THOMAS A. EDISON ESQ.

65 FIFTH AVENUE,

NEW YORK CITY :--

DEAR SIR :

RECEIVED  
MAY 24 1883  
ANSWERED

FILE NO. .... 188

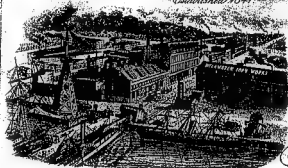
TWO YEARS AGO WE BUILT FROM PLANS OF CAPTAIN ERICSSON A STEAM ENGINE WHICH HAS BEEN RUNNING DURING THE PAST YEAR DRIVING THE ELECTRIC LIGHTS, THE ENGINE BEING CONNECTED DIRECT TO A DYNAMO AND MAKING ABOUT 900 REVOLUTIONS PER MINUTE. IT HAS WORKED SO WELL THAT CAPT. ERICSSON HAS THOUGHT BEST FOR US TO BUILD ANOTHER MACHINE, ADDING SUCH IMPROVEMENTS AS MAY HAVE SUGGESTED THEMSELVES BY THE USE OF THIS FIRST ONE. THE SECOND MACHINE IS NOW FINISHED AND RUNNING AND CAPT. ERICSSON, AS WELL AS OURSELVES, IS ANXIOUS TO HAVE THIS MACHINE DRIVE ONE OF YOUR DYNAMOS. WE INTEND TO PUT UP THIS MACHINE TO LIGHT A PORTION OF OUR OWN WORKS AND BELIEVE IT TO BE ADMIRABLY ADAPTED FOR THAT PURPOSE. WE THINK YOU WILL FEEL A VERY GREAT INTEREST IN IT WHEN YOU SEE IT RUN, THE REGULATION AND LUBRICATION BEING ABSOLUTELY PERFECT. WE

Please address ALL business communications to C. H. DELAMATER & CO.

Established 1841

C. H. Delamater

1883-05-23  
C. H. Delamater & Co. Proprietors



**DELAMATER IRON WORKS**  
C. H. DELAMATER & CO. PROPRIETORS.  
**BOILER MAKERS**  
**ENGINE BUILDERS AND FOUNDERS**  
FOOT OF WEST 13<sup>TH</sup> ST.  
NORTH RIVER.

*New York* 188

WRITE THIS LETTER, HOPING THAT YOU CAN NAME A TIME WHEN YOU WILL  
SEE THE MACHINE HERE OR THAT YOU WILL GRANT AN INTERVIEW AT YOUR  
OWN CONVENIENCE AT YOUR PLACE WITH OUR MR. REYNOLDS WHO WILL EX-  
PLAIN TO YOU WHAT IS REQUIRED IN ORDER TO ATTACH ONE OF YOUR MA-  
CHINES TO THIS ENGINE.

HOPING TO HEAR FROM YOU SOON, WE ARE

YOURS RESPECTFULLY,

C. H. DE LAMATER & CO.

Please address ALL business communications to C. H. DELAMATER & CO.

Western Electric Company,

New York.

1883-07-18

July 18/83.

Geo. A. Edison, Esq.  
60 Fifth Ave.  
New York  
What kind of instrument  
is it? - Allow us to  
call your attention to the  
fact that we have  
just received a sample  
of your dynamo-electric  
currents.

These instruments are  
considered by good judges  
to be the finest made.

We shall be glad to  
let you have a set on  
trial if you desire.

Yours truly,

Western Electric Co.

C. A. Brown

1883-08-18

Established 1837

CHARLES COOPER & CO  
MANUFACTURING  
CHEMISTS & IMPORTERS  
194 WORTH ST.  
WORKS AT NEWARK N.J.

Charles Cooper New York  
Jacob Weinhaus New York  
J.B. Stoussens Newark N.J.

New York Aug 18 1883

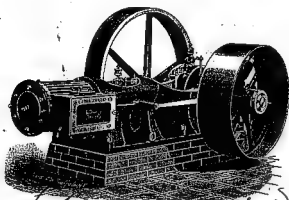
Mr. H. C. Edison  
Dear Sir

In reply to you  
of the 17th, we quote  
you Pure Sulphate  
Zinc in 10 to 18¢  
at 100 to 15¢  
we remain

Respectfully

Chas Cooper & Co  
Woodworth

Write for a sample for test  
purposes - we must have it  
perfectly free from iron. Especially  
E



W. H. NICHOLSON, PRES.

1883-10-12

F. H. BALL, TREAS.

BALL ENGINE COMPANY,

*Manufacturers of*  
Automatic Cut-Off  
ENGINES.

Recd, Pa. *Oct 12 4* 1883

OCT 15 1883

ANSWERED

of an 8 1/2 x 10

FILE NO. 111

*My A Edison*

We should want to

make long test of

near that size

the sooner it works

before

*My A Edison*

We have made

several attempts to

reach your Co but without success in

the question of the superiority of our

Engine for Electric lighting. We now

state our case briefly. On the

question of Regulation or as absolutely

hold an Engine to speed under full

changes of load as the world moves.

Our valve is far superior to any

Piston valve which is the kind all single

valve Automatic Engines use. We

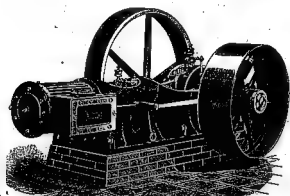
give the highest attainable Economy

to an Engine Capable of long continuous

work having the most improved

system of lubrication. We have

the Engine at the Boston fair, & if it



W. H. NICHOLSON, Pres.

1883-10-12

F. H. BALL, Treas.

BALL ENGINE COMPANY,

MANUFACTURERS OF

Automatic Cut-Off  
ENGINES.

Bro, Pa., \_\_\_\_\_ 188

is possible for you to get better results  
for your lights by means of having  
an Engine such as we described -  
we will make the following proposition

If you will send a man there  
to investigate, if all we have  
stated is not correct you can  
draw on us for the expense -

Having today the most  
perfect Electric Engine we must  
have an arrangement with several  
of the Electric Cos as we already  
have with one - Can we hear  
from you

Respectfully Yours  
F. H. Ball  
W. H. Nicholson  
Pres.





1883-10-17

Chicago, Oct. 17, 1883

Thos A Edison Esq  
65 Fifth Ave

N.Y. City

Dear Sir

We thank you for your prompt reply to our letter and beg to say that your suggestion is entirely satisfactory to us.

As soon as an engine can be spared we shall be glad to send you a 9x12 speeded to 300 revolutions for you to test at your works.

Our standard pulley for this engine is 40". Will this suit your requirements. If not please state what size mill. Please state also



1883-10-17

2

Chicago

How long you would like to test the engine. You may expect the following results from our engine which should be always guaranteed.

1st Chiefly an exactness of regulation that no other system of governing can possibly give

2nd In the matter of fuel economy as good results as any engine can give.

3rd An engine of very superior design & finish and extremely simple in construction as a result of which the engine is capable of long continuous run. As an evidence of

1883-10-17



Chris. Pal

188

the probability of our doing what we claim we refer you to the Boston Fair where the superior performance of our engine is admitted by all. Please notice the American machinist of this week which speaks of the results obtained by our engine at the fair.

We could give you very flattering testimonials but we refrain from doing so as we know you want the practical demonstration under your own supervision.

In considering the good points of our engine we hope you will not overlook

1883-10-17



Chris. Pal

188

the valves which has flat wearing surfaces taking up its own wear which is certainly a very much better valve than a piston valve particularly so when considering the question of long life of the engine. We shall be glad to hear from you at your earliest convenience.

Yours Truly  
Ball Engine Co

1873-10-17



**SMITH, MYERS & SCHINNER**

MANUFACTURERS OF

**STEAM ENGINES & CIRCULAR SAW MILLS**

SHAFTING, HANGERS, PULLEYS, COUPLINGS  
AND  
GENERAL MACHINERY.

301, 303, 305 & 307  
WEST FRONT STREET

Cincinnati, Oct 17 1873.

In reply to yours of

Thos. A. Edison Esq.  
No 61 5th Avenue  
New York.

Sir:

We learn from Mr Stewart of the Ohio Company that you have signified your willingness, in case we bring an Engine to New York and allow you to test it and the Engine proved to your satisfaction that it is capable of driving an Electric Dynamo equally as well as an Engine manufactured by Mess Armington & Sons of Providence to give us orders for one hundred or more Engines. We are confident that our Terrospin Engine will do this work and are perfectly willing and even anxious to make the trial. Would of course prefer it near home but would come to New York if our better arrangements can be made.

Would be pleased to have you draw up a contract to this effect and forward to us, let us have also all the data and also state the nature of the test given required & special points to be considered in fact let us understand clearly what is expected of us. We will then write you regarding the matter and can no doubt make arrangements that will be



1883-10-17  
Smith, Myers & Schrier

STEAM ENGINES & CIRCULAR SAW MILLS.

STARTING, HANGERS, PULLEYS & COUPLINGS  
AND  
GENERAL MACHINERY

312, 314, 316 & 318  
WEST FRONT STREET  
Cincinnati

In reply to yours of

perfectly satisfactory to all concerned.  
A prompt reply is respectfully solicited.

Respectfully,

Smith, Myers & Schrier,  
Cincinnati.

As time is an element and as we have the Arringtons running nearly 2 years we would not give order for 100 or short trial but we will put up an engine at Gough Street works & test the same 2 or 3 months & if satisfied buy a large lot of engines from them - they pay freight etc, & we buy the engine at the factory

14 1/2 x 18 50 to 20

2-60 48 700

12 60 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

3-50 48 700

Oct 17/13

Schmidt Moyer

Schneider

re an engine

to be tested

GENERAL MACHINES  
AND  
ENGINEERING  
CO.  
NEW YORK  
100 NASSAU ST.  
NEW YORK



# BECKER & SONS,

MANUFACTURERS OF

RECEIVED BALANCES AND WEIGHTS OF PRECISION,

OCT 31 1883

ASHTON RED

6 MURRAY STREET,

New York, Oct 31<sup>st</sup> 1883

.....188.....  
P.F. 8

Thomas A. Edison Esq

Dear Sir.

The capacity of  
Balance #7 is 100 Gramms. If you  
need a Balance to carry 300 Gramms  
we would recommend our #8 Balance.  
we enclose one of our lists so that you  
may choose for yourself. we remain  
Yours Very Respectfully  
Becker & Sons.



We have 40" x 46" & would prefer to use one of these rather than make a new pattern for which we might have no further use after this test.

Could it not be arranged with counterbalance for the purpose of this test.

In regard to the expense of test we suppose you will conduct the test if we deliver the engine in your shop & set it up for you.

Are we right about this & if so will there be any unusual expense attending the placing of engine where you can use it.

We are very desirous of giving you this demonstration if you want it. Having gone through similar tests on previous occasions we know just what the results will be & you may be sure your dynamo will make absolutely the same number of revolutions when doing its work as when running empty.

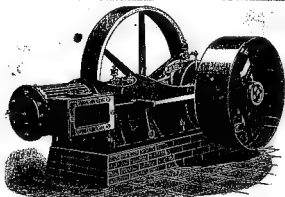
Awaiting your kind reply we are

Yours Very Truly

Ball Engine Co.

F. W. Ball & Co.





W. H. NICHOLSON, President.

1883. 11. 09.

P. H. BALL, Treasurer.

BALL ENGINE COMPANY,  
MANUFACTURERS OF

Automatic Cut-Off Engines,

Embodying a new principle in which the

GOVERNOR WEIGHS THE LOAD.

Che, Pa., Nov 9<sup>th</sup> 1883

Mr. A. Edison

New York

Dear Sir

In reply to yours of the 28<sup>th</sup> inst. will say - We can give you the verbal statement of our patent lawyer in reference to the question do you infringe on Armstrong & Sons, & is your engine patent free. His answer is "We are patent free" but we will give you his written opinion soon, wherein he will go elaborately into the matter.

Our system of governing is entirely new. We have the only patents covering the principle. We will furnish this information as soon as need.

Respect Yours  
P. H. Ball

1883-11-22

BECKER & SONS,

MANUFACTURERS OF

BALANCES AND WEIGHTS OF PRECISION,

6 MURRAY STREET,

New York, Nov 22 - 1883

Thos. A. Edison Esq

Dear Sir.

The Balance #7  
a B. constructed so as to weight on  
beam in the Beam is really be kind  
enough to inform us what its do  
with same. and oblige.

Yours Very Respectfully  
Becker & Sons

Send to Geo Grown  
Gorack  
tell Clark & Grown  
to test it & give their  
opinion if it is best to  
use them in future  
E

VALLEY IRON WORKS,  
Manufacturing Founders & Machinists,  
33-43 West Street,

WILLIAMSPORT, PENNA.

Nov 26

1883

Mass Edison Electric Light Co.,  
Attentive

We enclose you herewith Photograph of our Small  
Engine. This we have designed with a view to Great Speed Economy.  
We have made a thorough test under strain of iron we can with  
perfect safety without the slightest perceptible jar run it to a  
speed of 1100 revolutions. we showed it in operation to several  
of the Edison Electric Lighting Co of this city. they are very much  
pleased with it especially it number one for the purpose. We  
consider it one of the most compact robust designed Engines  
now in the market. (we have not as yet placed these Engines  
in the market but purpose doing so very shortly) we have  
several 10x12 now under way. which will shortly be completed.  
we have concluded to do away with all belted work. making  
Engines as plain as possible. Green Head has 4 1/2" both Top &  
Bottom. Guides are struck from complete circles making it  
impossible (should Engine get out of line) to injure any of the working  
parts. as Green Head will immediately adjust itself allowing  
Kist Pin Cores to do the same. we have not slighted  
it in any respect & claim we have as fine an Engine for

**HALLEY IRON WORKS,**  
Manufacturing Founders & Machinists,  
33-43 West Street,

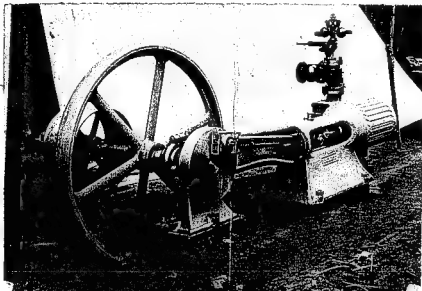
*Can use this  
type of Engine  
has trouble  
going*

WILLIAMSPORT, PENNA.,

the purpose as there is anywhere manufactured, we should  
like to send you one of them on trial. if it proves satisfactory you  
to retain it. if not satisfactory it to be returned at our expense. we  
purpose manufacturing in Erie to suit the demand. we can offer  
you this Engine at \$450.00 less 30%. if you will allow us to send you  
on under these terms please give us length of shaft you require &  
whether you wish Pilot Steel on end of shaft. If these terms are  
not agreeable please suggest some as we desire you to try it. Kindly  
favor us with reply very much obliged

Very Respectfully yours  
Wm. C. Halley

*will call & see  
it when come to  
Wm. C. Halley*



Thomas A. Addison Esq

65 Fifth Avenue N.Y.C.

Sir. We like the pulley and will

order three when you are

able to supply them. I have  
a paper pulley placed on  
one of your machines for  
trial. The paper pulley is  
a new invention and  
where it has been tested  
has commanded the fullest  
indorsement by Mechanical  
Engineers. It holds the belt  
from slipping equal to the  
Rubber Covered pulley. It  
is lighter than the Cast  
iron pulley. And in the  
points of advantage it  
saves fully 25 percent  
of power over the ordi-  
nary Cast iron pulley.

1883-12-04

As I am about organizing  
a Company to manufacture  
the paper pulley on a large  
scale. Your statement as  
to the advantages the pulley  
possesses for selection of  
machinery would be of  
great benefit. Your Me-  
chanical Superintendent  
who has been using the  
pulley ought to be able  
to give the information  
which to base such opinion.  
I take the liberty of addressing  
you personally, as thinking  
getting your approval  
I am aiding in the organiza-  
tion of a Company at

OFFICE OF E. B. MARTINDALE,  
PATENTEE OF "THE AMERICAN PAPER PULLEY,"  
INDIANAPOLIS, IND.

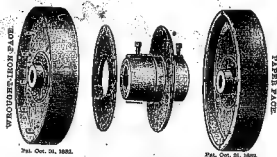
1883-12-04

this point for a plant of  
the Edison Electric Light.  
Hoping to hear from you  
soon as to the advantages  
of the Paper Pulley which  
you have had in use  
I remain  
Yours Truly  
E. B. Martindale

1893-12-04

# Martindale's PATENT PAPER PULLEYS.

MANUFACTURED ONLY BY



WROUGHT-IRON PAPER.

PAPER PAPER.

Pat. Oct. 21, 1883.

Pat. Oct. 21, 1883.

## American Paper Pulley Co.

114 and 116 S. Pennsylvania St.,

INDIANAPOLIS, IND.

DEALERS IN

### SHAFTING, HANGERS AND BELTING.

[ENCLOSURE]

# PRICE-LIST OF PAPER PULLEYS.

*Bored, Turned and Balanced, with Set-Screws.*

## American Paper Pulley Co.

MANUFACTURERS OF

Paper Pulleys, Wooden Pulleys,

AND

Paper Disc Wrought-Iron Rim Pulleys,

Wood Disc Wrought-Iron Rim Pulleys,

AND

Friction Pulleys.

Our Pulleys are stronger, lighter and cheaper than Cast-Iron Pulleys and are infinitely superior and preferable to any Pulley manufactured.

Our product fully covered by Letters Patent in United States and Foreign Countries.

We guarantee our pulleys to meet all requirements.

Not more broken Pulleys to sell for scrap, or poorly balanced Pulleys to rack your line or counter shaft.

Bore of Pulley in inches	Diameter of Shaft in inches																	
	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
62.15	2.35	2.05	2.80	3.00	3.25	3.50	3.75	4.00	4.25	4.50								
72.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75								
82.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00								
92.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25								
102.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	
112.85	3.10	3.80	3.60	3.90	4.25	4.50	5.00	5.25	5.75	6.00	6.50							
123.00	3.25	3.50	4.00	4.25	4.50	5.00	5.25	5.50	5.80	6.25	6.50	7.00						
133.25	3.50	3.75	4.10	4.40	4.60	5.00	5.25	5.50	5.80	6.25	6.50	7.00	7.50					
143.50	3.50	4.00	4.20	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.75	9.25	9.75				
153.75	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	
164.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	
174.25	3.50	4.00	4.75	5.20	5.75	6.25	6.80	7.30	7.80	8.30	8.80	9.30	9.80	10.30	10.80	11.30	11.80	
184.50	3.50	4.45	4.85	5.50	6.05	6.65	7.25	7.90	8.50	9.10	9.70	10.30	10.90	11.50				
194.80	3.50	4.50	5.00	6.00	6.45	7.15	7.75	8.55	9.00	9.75	10.50	11.25	12.00	12.75	13.50			
205.00	3.50	4.50	5.25	6.25	6.75	7.60	8.25	9.15	9.60	10.50	11.25	12.00	12.75	13.50	14.25	15.00		
215.25	3.50	4.50	5.50	6.50	7.00	7.90	8.60	9.55	10.00	10.90	11.60	12.30	13.00	13.75	14.50	15.25		
225.50	3.50	4.50	5.75	6.75	7.25	8.20	8.90	9.90	10.40	11.25	12.00	12.75	13.50	14.25	15.00	15.75		
235.75	3.50	4.50	6.00	7.00	7.50	8.50	9.20	10.20	10.70	11.60	12.30	13.00	13.75	14.50	15.25	16.00		
246.00	3.50	4.50	6.25	7.25	7.80	8.80	9.50	10.50	11.00	11.90	12.60	13.30	14.00	14.75	15.50	16.25		
256.25	3.50	4.50	6.50	7.50	8.00	9.00	9.70	10.70	11.20	12.10	12.80	13.50	14.25	15.00	15.75	16.50		
266.50	3.50	4.50	6.75	7.75	8.25	9.25	9.95	10.95	11.45	12.35	13.05	13.75	14.50	15.25	16.00	16.75		
276.75	3.50	4.50	7.00	8.00	8.50	9.50	10.20	11.20	11.70	12.60	13.30	14.00	14.75	15.50	16.25	17.00		
287.00	3.50	4.50	7.25	8.25	8.75	9.75	10.45	11.45	11.95	12.85	13.55	14.25	15.00	15.75	16.50	17.25		
297.25	3.50	4.50	7.50	8.50	9.00	10.00	10.70	11.70	12.20	13.10	13.80	14.50	15.25	16.00	16.75	17.50		
307.50	3.50	4.50	7.75	8.75	9.25	10.25	10.95	11.95	12.45	13.35	14.05	14.75	15.50	16.25	17.00	17.75		
317.75	3.50	4.50	8.00	9.00	9.50	10.50	11.20	12.20	12.70	13.60	14.30	15.00	15.75	16.50	17.25	18.00		
328.00	3.50	4.50	8.25	9.25	9.75	10.75	11.45	12.45	12.95	13.85	14.55	15.25	16.00	16.75	17.50	18.25		
338.25	3.50	4.50	8.50	9.50	10.00	11.00	11.70	12.70	13.20	14.10	14.80	15.50	16.25	17.00	17.75	18.50		
348.50	3.50	4.50	8.75	9.75	10.25	11.25	11.95	12.95	13.45	14.35	15.05	15.75	16.50	17.25	18.00	18.75		
358.75	3.50	4.50	9.00	10.00	10.50	11.50	12.20	13.20	13.70	14.60	15.30	16.00	16.75	17.50	18.25	19.00		
369.00	3.50	4.50	9.25	10.25	10.75	11.75	12.45	13.45	13.95	14.85	15.55	16.25	17.00	17.75	18.50	19.25		
379.25	3.50	4.50	9.50	10.50	11.00	12.00	12.70	13.70	14.20	15.10	15.80	16.50	17.25	18.00	18.75	19.50		
389.50	3.50	4.50	9.75	10.75	11.25	12.25	12.95	13.95	14.45	15.35	16.05	16.75	17.50	18.25	19.00	19.75		
399.75	3.50	4.50	10.00	11.00	11.50	12.50	13.20	14.20	14.70	15.60	16.30	17.00	17.75	18.50	19.25	20.00		
410.00	3.50	4.50	10.25	11.25	11.75	12.75	13.45	14.45	14.95	15.85	16.55	17.25	18.00	18.75	19.50	20.25		
420.25	3.50	4.50	10.50	11.50	12.00	13.00	13.70	14.70	15.20	16.10	16.80	17.50	18.25	19.00	19.75	20.50		
430.50	3.50	4.50	10.75	11.75	12.25	13.25	13.95	14.95	15.45	16.35	17.05	17.75	18.50	19.25	20.00	20.75		
440.75	3.50	4.50	11.00	12.00	12.50	13.50	14.20	15.20	15.70	16.60	17.30	18.00	18.75	19.50	20.25	21.00		
451.00	3.50	4.50	11.25	12.25	12.75	13.75	14.45	15.45	15.95	16.85	17.55	18.25	19.00	19.75	20.50	21.25		
461.25	3.50	4.50	11.50	12.50	13.00	14.00	14.70	15.70	16.20	17.10	17.80	18.50	19.25	20.00	20.75	21.50		
471.50	3.50	4.50	11.75	12.75	13.25	14.25	14.95	15.95	16.45	17.35	18.05	18.75	19.50	20.25	21.00	21.75		
481.75	3.50	4.50	12.00	13.00	13.50	14.50	15.20	16.20	16.70	17.60	18.30	19.00	19.75	20.50	21.25	22.00		
492.00	3.50	4.50	12.25	13.25	13.75	14.75	15.45	16.45	16.95	17.85	18.55	19.25	20.00	20.75	21.50	22.25		
502.25	3.50	4.50	12.50	13.50	14.00	15.00	15.70	16.70	17.20	18.10	18.80	19.50	20.25	21.00	21.75	22.50		
512.50	3.50	4.50	12.75	13.75	14.25	15.25	15.95	16.95	17.45	18.35	19.05	19.75	20.50	21.25	22.00	22.75		
522.75	3.50	4.50	13.00	14.00	14.50	15.50	16.20	17.20	17.70	18.60	19.30	20.00	20.75	21.50	22.25	23.00		
533.00	3.50	4.50	13.25	14.25	14.75	15.75	16.45	17.45	17.95	18.85	19.55	20.25	21.00	21.75	22.50	23.25		
543.25	3.50	4.50	13.50	14.50	15.00	16.00	16.70	17.70	18.20	19.10	19.80	20.50	21.25	22.00	22.75	23.50		
553.50	3.50	4.50	13.75	14.75	15.25	16.25	16.95	17.95	18.45	19.35	20.05	20.75	21.50	22.25	23.00	23.75		
563.75	3.50	4.50	14.00	15.00	15.50	16.50	17.20	18.20	18.70	19.60	20.30	21.00	21.75	22.50	23.25	24.00		
574.00	3.50	4.50	14.25	15.25	15.75	16.75	17.45	18.45	18.95	19.85	20.55	21.25	22.00	22.75	23.50	24.25		
584.25	3.50	4.50	14.50	15.50	16.00	17.00	17.70	18.70	19.20	20.10	20.80	21.50	22.25	23.00	23.75	24.50		
594.50	3.50	4.50	14.75	15.75	16.25	17.25	17.95	18.95	19.45	20.35	21.05	21.75	22.50	23.25	24.00	24.75		
604.75	3.50	4.50	15.00	16.00	16.50	17.50	18.20	19.20	19.70	20.60	21.30	22.00	22.75	23.50	24.25	25.00		
615.00	3.50	4.50	15.25	16.25	16.75	17.75	18.45	19.45	19.95	20.85	21.55	22.25	23.00	23.75	24.50	25.25		
625.25	3.50	4.50	15.50	16.50	17.00	18.00	18.70	19.70	20.20	21.10	21.80	22.50	23.25	24.00	24.75	25.50		
635.50	3.50	4.50	15.75	16.75	17.25	18.25	18.95	19.95	20.45	21.35	22.05	22.75	23.50	24.25	25.00	25.75		
645.75	3.50	4.50	16.00	17.00	17.50	18.50	19.20	20.20	20.70	21.60	22.30	23.00	23.75	24.50	25.25	26.00		
656.00	3.50	4.50	16.25	17.25	17.75	18.75	19.45	20.45	20.95	21.85	22.55	23.25	24.00	24.75	25.50	26.25		
666.25	3.50	4.50	16.50	17.50	18.00	19.00	19.70	20.70	21.20	22.10	22.80	23.50	24.25	25.00	25.75	26.50		
676.50	3.50	4.50	16.75	17.75	18.25	19.25	19.95	20.95	21.45	22.35	23.05	23.75	24.50	25.25	26.00	26.75		
686.75	3.50	4.50	17.00	18.00	18.50	19.50	20.20	21.20	21.70	22.60	23.30	24.00	24.75	25.50	26.25	27.00		
697.00	3.50	4.50	17.25	18.25	18.75	19.75	20.45	21.45	21.95	22.85	23.55	24.25	25.00	25.75	26.50	27.25		
707.25	3.50	4.50	17.50	18.50	19.00	20.00	20.70	21.70	22.20	23.10	23.80	24.50	25.25	26.00	26.75	27.50		
717.50	3.50	4.50	17.75	18.75	19.25	20.25	20.95	21.95	22.45	23.35	24.05	24.75	25.50	26.25	27.00	27.75		
727.75	3.50	4.50	18.00	19.00	19.50	20.50	21.20	22.20	22.70	23.60	24.30	25.00	25.75	26.50	27.25	28.00		
738.00	3.50	4.50	18.25	19.25	19.75	20.75	21.45	22.45	22.95	23.85	24.55	25.25	26.00	26.75	27.50	28.25		
748.25	3.50	4.50	18.50	19.50	20.00	21.00	21.70	22.70	23.20	24.10	24.80	25.50	26.25	27.00	27.75	28.50		
758.50	3.50	4.50	18.75	19.75	20.25	21.25	21.95	22.95	23.45	24.35	25.05	25.75	26.50	27.25	28.00	28.75		
768.75	3.50	4.50	19.00	20.00	20.50	21.50	22.20	23.20	23.70	24.60	25.30	26.00	26.75	27.50	28.25	29.00		
779.00	3.50	4.50	19.25	20.25	20.75	21.75	22.45	23.45	23.95	24.85	25.55	26.25	27.00	27				



**WE CLAIM THE FOLLOWING ADVANTAGES  
OVER ANY OTHER PULLEYS.**

**THEY ARE STRONGER** and consequently more durable:

1. In the absence of shrinkage strains, to which cast pulleys are subject.
2. The discs or centers being solid, there are no weak or yielding spaces as in a pulley having arms supporting the rims.
3. The rims are not fragile and easily broken as in cast iron.

**THEY ARE LIGHTER** one-third to one-half, than other pulleys, and can be run with safety at higher speed, transmitting the same power with lighter shafting and hangers.

**THEY ARE CHEAPER.** From the saving in cost of Belts, Shafting and Hangers; there is no danger of breakage in handling, there being a direct loss in this way in Cast Iron Pulleys. There is, with a Cast Iron Pulley, a direct loss in the transmission of power caused by the slipping of belts. This is partially overcome by the use of the Wrought Iron Rim Pulley, and entirely overcome by the use of the Paper Face Pulley, the belt adhering to wrought iron, paper or wood much more than to cast iron.

*Our Pulleys are designed for any and all classes of work, but especially recommend themselves to mill furnishers, millers, wood workers and machinists. They are not affected by heat or moisture, but should not be used for out door work, where exposed to the weather, unless well painted at least once a year.*

1883-12-08  
BECKER & SONS,

MANUFACTURERS OF

BALANCES AND WEIGHTS OF PRECISION,

6 MURRAY STREET,

New York, Dec 8 <sup>th</sup> 1883

RECEIVED  
DEC 8 1883  
ANSWERED

Dec 8/83  
FILE NO. ....

T. A. Edison Esq

Dear Sir,

It will cost Five Dollars Extra for the #7 Balance and Eight Dollars Extra for the #8 Balance to make them the same as the one you have in Brook St. we remain

Yours Truly Respectfully  
Becker & Sons

Accepted Dec 8/83

*[Signature]*

1883-12-10

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY**  
**COTTON AND MOHAIR YARNS, WOOL ETC.**

 KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE  
 PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOYD, AND TAYLOR, WOODSWORTH & CO.

 SOLE AGENTS  
 FOR  
 PRINCE, SMITH & SON,  
 WAREHOUSES & FACTORIES,  
 TAYLOR, WOODSWORTH & CO.,  
 FORT COCKE & CO.,  
 T. R. HARDING & SON,  
 OIL & CHEMISTS,  
 J. WHITE & SON,  
 SPINNING LOOMS,  
 BAERLEIN & CO.,  
 RIGGING MACHINES,  
 SAHL, REUBENSON,  
 SPINNING MACHINES,  
 DOBSON & BARLOW,  
 LUTHER MACHINERY.

 SOLE AGENTS  
 FOR  
 O. HARTENLEY & SON,  
 FANCY LOOMS,  
 ELKAMAH HOTEL & SON,  
 STEAM & FINEST MACHINERY,  
 JAMES YATES & SON,  
 CARD CUSHING,  
 J. JEFFERSON & SON,  
 WOOL WALKERS,  
 TORLOFF,  
 FINEST RIGGING,  
 J. HARTENLEY & SON,  
 TAYLOR,  
 W. E. SMITH & SON,  
 CARPET LOOMS.

Boston, Mass. December 10, your 1883.

 Mr. Thomas A. Edison,  
 Construction Dept.,

New York,

Dear Sir:--

In reply to your esteemed favor of 8th inst. we could supply you with the Harding's speed Indicators in quantity at \$29 net, (our price to sell them single is much higher). We could also supply them to you nickel plated, which would cost \$2. more.

We regret that we have no illustrated catalogue, as we should be very happy to forward one to you.

We shall be most happy to receive your orders, which we can forward by cable to insure a speedy delivery.

Yours respectfully,

*Stoddard, Lovering & Co.*
*Stoddard, Lovering & Co.*

*Take here in your  
 place to order  
 better order one  
 sent to 65 some  
 can see if it is  
 right and E*

1883 12-13

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY  
COTTON AND MOHAIR YARNS, WOOL ETC.**

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER, AND DUPLICATE  
PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOYD, and TAYLOR, WORDSWORTH & CO.

SOLE AGENTS  
FOR  
PRINCE, SMITH & SON,  
WINDING MACHINES, SPINNING,  
TAYLOR, WORDSWORTH & CO.,  
FINEST COTTONS ETC.,  
T. R. BARNES & SONS,  
OILS & COMBING PINS,  
J. WHITE & SONS,  
APRON LEATHER,  
BARTLEIN & CO.,  
SILK MACHINES,  
GAIL, NEWBOTTON,  
SPINDLE BANDS,  
ODDSON & BARLOW,  
WATER MACHINES.

SOLE AGENTS  
FOR  
S. HATFIELD & SONS,  
FANCY LOCKS,  
ELKMAN, WYLL & SONS,  
STEERING & FRICTION MACHINES,  
JAMES VATES & SONS,  
CARD CLOTHS,  
J. JEFFERSON & BROS.,  
WOOL, WAXES,  
TUBS, ETC.,  
J. PARKINER & SONS,  
TENTILES,  
W. SMITH & BROS.,  
CARPET LOOMS.

*Boston, Mass.* December 13, 1883

Mr. Thomas A. Edison, Constn. Dept.,

New York,

Dear Sir:—

We have your favor of yesterday, and regret that we have only a few days ago parted with the last Speed Indicators we had in stock, and it may be a few weeks before we can have a fresh supply.

Just 12 months ago we sent six of these machines to the "Edison Light Company", and you may be able to see one or the other in New York.

Yours respectfully,

*Stoddard, Lovering & Co.*

*Buyer  
will have to make them - 9*

1883-12-14

102 John St.  
New York, Dec. 14<sup>th</sup> 1883.

Mrs. Thos. A. Edison,  
Construction Department, 65-5<sup>th</sup> Ave.,  
Dear Sir,

Your favor of the 12<sup>th</sup> inst. is received.  
I have already an order given me personally by Mr.  
Edison for 500 lbs Sulphate Zinc to be free from Iron.  
Do I understand that you would like a sample  
before the lot is made? Kindly explain & oblige -  
Yours truly

Chas. T. White

Jr. Mr. W.

You delayed so we ordered a  
ton from Powers & Wrightman.  
However send sample & 500  
lbs to T. A. Edison Care Reymann  
& Co. ave B + 17<sup>th</sup> St

1883-12-19

*Stoddard, Lovering & Co.*  
IMPORTERS OF

IMPORTERS OF

**TEXTILE MACHINERY**  
**COTTON AND MOHAIR YARNS, WOOL ETC.**

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. A. T. BOYD, AND TAYLOR, WORDSWORTH & CO.

SOLE AGENTS  
FOR  
PRINCE, SMITH & SON,  
MACHINE SHEDS & APPLIANCES,  
TAYLOR, WOODWARD & CO.  
MOBILE COUNCIL  
T. R. HARDING & SONS,  
SILK & CLOTHING DEPT.,  
J. WHITE & SONS,  
APPROPRIATE LEXICONS,  
BARKLEY & CO.  
ESTATE MANAGERS,  
BARKLEY, ROWBOTTOM,  
SPINDLE BARKLEY,  
GOSSON & BARKLEY,  
COTTON MACHINERY.

SOLE AGENTS  
FOR  
O. HATTERSLEY & SONS  
FANCY GOODS.  
ELKHART HAT & GOWN  
STORE & FINE SHOE MACHINERY  
JAMES VATES & SONS,  
CARP COCHING.  
J. JEFFERSON & BROS.,  
WELL, WARDEN,  
TORLONIA,  
FRENCH GARDEN,  
J. PANNINGTON,  
TENPES.  
W. SMITH & BROS.,  
CARPET LOOMS.

*Boston, Mass.* December 19. 1883

Mr. Thomas A. Edison.

Construction Dept.

Dear Sir:—

We just received your telegram inquiring time of  
in which we could deliver Indicators.

As we could only guess at it, we have preferred to inquire by cable, how soon we could count upon the shipment of it, and will give you our answer to-morrow morning by wire. Should they be in stock, they can probably be delivered in three weeks, otherwise, it may take four to five weeks.

Yours respectfully,

The  
 for their Can  
 deliver mi about  
 four weeks so  
 I gave them  
 order - Gate

1883-12-21

# Stoddard, Lovering & Co.

IMPORTERS OF

**TEXTILE MACHINERY  
COTTON AND MOHAIR YARNS, WOOL ETC.**

SOLE AGENTS  
FOR  
FRANCE, SMITH & SON,  
WENTFORD, ENGLAND;  
TAYLOR, WOODBURN & CO.,  
WOLFE, CHAMBERLAIN & CO.,  
T. R. HARDING & SONS,  
DUL & COMPANY, PARIS,  
J. WHITE & SONS,  
APRIL, LEATHER,  
BAERLEIN & CO.,  
STEAD MACHINE,  
SAML. BOWEN & SONS,  
SPINDLE BANDS.

SOLE AGENTS  
FOR  
G. HATTERLEY & SONS,  
FRANCE, LEVER,  
ELKHART, WYOMING & SONS,  
BIRMINGHAM & SONS,  
JAMES VATER & SONS,  
CARD CUTTING,  
J. JEFFERSON & SONS,  
WOOL, WARRERS,  
TUNLOTH,  
FRANCE, BATH,  
J. PARMINGTON,  
TEMPLES.

KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PUS, APRON LEATHER AND DUPLICATE  
PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & T. BOND, AND TAYLOR, WOODBURN & CO.

*Boston, Mass.* December 21, 1883.

Mr. Thomas A. Edison,

New York, N. Y.,

Dear Sir:—

We received this morning a cable message from our friends, saying that they could ship 24 Speed Indicators within a month, of which we informed you by wire, and received since your message asking us to order them, which we have done to-night by cable.

We remain, dear sir,

Yours respectfully,

*Stoddard, Lovering & Co.*





THE

(1883)

WOOD AND RICHMOND REFRIGERATION COMPANY,  
MAKERS OF  
REFRIGERATING AND ICE MACHINERY,

ALSO

CONDENSE WATER-COOLERS (Saving 90 per cent. of Water.)



OFFICES, 176 BROADWAY.

Write & say that so far we  
have not been <sup>1888</sup> ~~troubled~~ with  
Prof Edison <sup>but expect to make several</sup>  
<sup>installations</sup> where we shall be  
65 Fifth Ave trial &  
Hawley. will you send it trial &

Should be to Campbell E  
We enclose your sketch of a  
simple apparatus <sup>sketch in book &</sup> which we patented  
for separating gas from liquid. <sup>Keep the address with notes</sup> The  
same attached to delivery pipe close  
up to boiler forms an excellent prevention  
of priming. Experiments have shown  
that priming is almost entirely due  
to the sweeping along by the steam  
of a film of water adhering to the sides  
of the pipe by capillary attraction.

The inverted cone secured to  
the upper part of the apparatus by  
means of a ferrule is of copper or  
steel the mouth being ground to a  
knife edge. The film of water is small

to pass his edge and drop back  
into the boiler. If you have any  
trouble from prunning we should be  
glad to arrange for a trial of the  
apparatus being confident that  
it would prove an entire success.

Yours respectfully  
Woot and Richmond

James C. Woot & Richmond

RECEIVED  
JAN 10 1891  
U.S. DEPT. OF AGRICULTURE  
WASHINGTON

**1833. Edison, T.A. - Unsolicited Inquiries (D-83-018) [not filmed]**

This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for other information about his inventions.

**1883. Edison, T.A. - Visitors (D-83-019) [not filmed]**

This folder contains routine letters of introduction and requests to visit Edison. Letters that received a significant response by Edison, or that were written by individuals associated with Edison, are filed in their appropriate subject folders.

## **PUBLICATION AND MICROFILM COPYING RESTRICTIONS**

**Reel duplication of the whole or of any part of this film is prohibited. In lieu of transcripts, however, enlarged photocopies of selected items contained on these reels may be made in order to facilitate research.**

## **A Note on the Sources**

**The pages which have been  
filmed are the best copies  
available. Every technical  
effort possible has been  
made to ensure legibility.**

65

**END**



## FINANCIAL CONTRIBUTORS

### PRIVATE FOUNDATIONS

Alfred P. Sloan Foundation  
Charles Edison Fund  
The Hyde and Watson Foundation  
Geraldine R. Dodge Foundation

### PUBLIC FOUNDATIONS

National Science Foundation  
National Endowment for the Humanities

### PRIVATE CORPORATIONS AND INDIVIDUALS

Alabama Power Company  
Amerazda Hess Corporation  
AT&T  
Atlantic Electric  
Association of Edison Illuminating  
Companies  
Battelle Memorial Institute Foundation  
The Boston Edison Foundation  
Cabot Corporation Foundation  
Carolina Power and Light Company  
Consolidated Edison Company of  
New York, Inc.  
Consumers Power Company  
Corning Glass Works Foundation  
Duke Power Company  
Exxon Corporation  
Florida Power & Light Company  
General Electric Foundation  
Gould Inc. Foundation  
Gulf States Utilities Company  
Idaho Power Company  
International Brotherhood of Electrical  
Workers  
Iowa Power and Light Company

Mr. and Mrs. Stanley H. Katz  
Matsushita Electric Industrial Co., Ltd.  
McGraw-Edison Company  
Middle South Services, Inc.  
Minnesota Power  
New Jersey Bell Telephone Company  
New York State Electric & Gas  
Corporation  
North American Phillips Corporation  
Philadelphia Electric Company  
Phillips International B.V.  
Public Service Electric and Gas  
Company  
RCA Corporation  
Robert Bosch GmbH  
San Diego Gas & Electric  
Savannah Electric and Power Company  
Scherling Plough Foundation  
Texas Utilities Company  
Thomson-Brandt  
Transamerica Delaval Inc.  
Westinghouse Educational Foundation  
Wisconsin Public Service  
Corporation

## BOARD OF SPONSORS

Rutgers, The State University of  
New Jersey

Edward J. Bloustein

T. Alexander Pond

Tilden G. Edelstein

John Gillis

New Jersey Historical Commission

Bernard Bush

Howard L. Green

National Park Service, Edison

National Historic Site

Roy W. Weaver

Edward J. Pershey

Smithsonian Institution

Bernard Finn

Arthur P. Molella

## EDITORIAL ADVISORY BOARD

James Brittain, Georgia Institute of Technology

Alfred D. Chandler, Jr., Harvard University

Neil Harris, University of Chicago

Thomas Parke Hughes, University of Pennsylvania

Arthur Link, Princeton University

Nathan Reingold, Smithsonian Institution

Robert B. Schofield, Iowa State University

## CORPORATE ASSOCIATES

William C. Hittinger (chairman), RCA Corporation

Edward J. Bloustein, Rutgers, The State University of N.J.

Cees Bruynes, North American Philips Corporation

Paul J. Christiansen, Charles Edison Fund

Philip F. Dietz, Westinghouse Electric Corporation

Roland W. Schmitt, General Electric Corporation

Harold W. Sonn, Public Service Electric and Gas Company

Morris Tanenbaum, AT&T

**THOMAS A. EDISON PAPERS**

**Reese V. Jenkins**  
Director and Editor

**Thomas E. Jeffrey**  
Associate Director and Microfilm Editor

**Assistant Editors**  
**Paul B. Israel**  
**Robert A. Rosenberg**  
**Keith A. Nier**  
**Andrew Butrica**

**Assistant to the Director**  
**Helen Endick**

**Leonard DeGraaf**  
**Alan Stein**  
**Jacquelyn Miller**

**Research Associates**  
**Douglas G. Tarr**  
**Mary Ann Helleigel**  
**David W. Hutchings**

**Secretary**  
**Grace Kurkowski**

**Student Assistants**

**Joseph P. Sullivan**  
**Karen Kozak**  
**Granville Miller**

**Thomas A. Edison Papers  
at  
Rutgers, The State University  
endorsed by  
National Historical Publications and Records Commission  
18 June 1981**

Copyright © 1987 by Rutgers, The State University

All rights reserved. No part of this publication including any portion of the guide and index or of the microfilm may be reproduced, stored in a retrieval system, or transmitted in any form by any means—graphic, electronic, mechanical, or chemical, including photocopying, recording or taping, or information storage and retrieval systems—without written permission of Rutgers, The State University, New Brunswick, New Jersey.

The original documents in this edition are from the archive at the Edison National Historic Site at West Orange, New Jersey.

# Thomas A Edison Papers

## A SELECTIVE MICROFILM EDITION

### PART II (1879-1886)

Thomas E. Jeffrey  
Microfilm Editor and Associate Director

Paul B. Israel  
Assistant Editor

Mary Ann Hellrigel  
David W. Hutchings

Douglas G. Tarr  
Robert A. Rosenberg

Editorial Associates

Leonard DeGraaf  
Joseph P. Sullivan  
Alan Stein  
Karen Kozak

John Deasey  
Barbara B. Tomblin  
Jacquelyn Miller  
Maria Antonakakis

Student Assistants

Keith A. Nier  
Assistant Editor

Reese V. Jenkins  
Director and Editor

#### Sponsors

Rutgers, The State University of New Jersey  
National Park Service, Edison National Historic Site  
New Jersey Historical Commission  
Smithsonian Institution

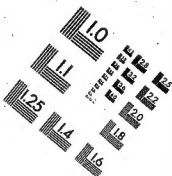
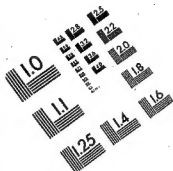
University Publications of America  
Frederick, Maryland  
1987

Edison signature used with permission of McGraw-Hill Company.



Association for  
Information and Image  
Management

MS303-1980



Centimeter



Inches

